

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

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TMIE sources of sungical literature are so many and varied, the number of periodic cals appearing each week and month so great, that the sungrees who whee to keep alreast of the important developments in general medical models are so that the sungered who wheet to keep alreast of the important development in general medical models are so well as the solution of our earlier wheet in the sungered wheet in the sungered with t

eeding numbers of the INTENATIONAL ABSTRACT or SUMMENT t point out the chief sources of surgical literature, t mention the important journals in our own and other countries, and to indicate briefly their character and scope

undicate briefly their character and scope. In recent years there were three main sources of suggest literature; the university groups, dened primarily to the teaching of medical seemes the chincal groups, de-noted primarily; it be practice of methons and surgery but of containty increasing importance in stimulating surgical progress the research groups, devoted primarily to advancing surgical scorece through the original in estigation and experimental surgery. Today these groups are merging int one and as they are becoming component parts of one unified group progress as becoming constantly more rande and definite.

From the earthest days of medical science the aniversities ha furnished in-paration and stumling to medical progress. In our own country Philadelphia, the sext of the first Amirican medical school organized in 76 a the Medical Department of the University of Pennis hains, as also the bone of one of the first American medical journals, the Ph Indelph Jurical of the Hadrad Jun Physical S. or as which became in

Medical and Physical Sc on et which became in B 7 our well-know. American Jersmal of the Med cal Sciences. Men who were twithers were among its eathers contributors. Today as then no important abure of the worth. Indic contributions to surgical literature one from men who are actively interested in the teaching of surgery.

The growth of the group system of medical practice in America has given unusual opport inties for the study of "inneal drease entities and of supporal treatment, by flording one man or one group of men the opp struinty of observing and treating large number. Similar case. The

excellence of American surgical literature is in no small degree doe to the numerous and able contributions coming from the May o Climic, the Johns Hopkins Hospital Clinke, the Lakeside Clinke of Dr. Crile and his associates, and from other similar groups

Of ever increasing importance to the development of surgical progress i the work of the inestigative pioneers. From the Rockefeller institute for more than the Wastar feature of Anatomy from the Department of Surgical Research of the University of Pennsyl man, of the University of California from practically every one our larger universities and from amiliar ministrations in other countries come contributions in other countries come contributions in other countries come contributions from the protect of original mestigations that are counts at being translated into terms of unproved surgical treatment.

From these sources, largely our surgical literature is drawn. In succeeding numbers, beginning with our own country we will mention briefly the most important and helpful journals, particularly those of surgical importance.

OUT of a large number of interesting and few are particularly worthy of attenton. A discussion from the London Merical Society on the treatment of caranoma of the tongue (p. 8) reflects the news of a number of leading British surgeous on this difficult problem.

Ferr arterial sympathectomy (pp. 27-28) continues t amone a great deal of interest, particularly in France and Germany. The treatment of reflex anura by aniserthetizing the splanchic nerves (p. 67) is a new suggestion in councetion with the surgery of the sympathetic nerves.

New methods of estimating the functional capacity of the li-er (p. 37) are commanding in creasure attention.

Lymphaticostomy as a therapeutic measure is suppurative personnium (p. so) transfusion for malnourished infants (p. 50) the use of magnesium sulphat as a sedative (p. 77) are all therapeutic suppostsions worthly of senous consideration.

A discussion on the prognosus and treatment of dislocation of the shoulder joint (p. 50) based on a sense of 23 cases, is of exp practical importance. Experimental in estigations of the influence of the Y-ray on influence connectivities (p. 80) and of the effect of radium on hopmal nervous

the X-ray on inflamed connectivities (p. 80) and of the effect of radium on normal nervous tassic are of particular interest because of the constantly increasing use of these agencies for therapeutic purposes

INTERNATIONAL ABSTRACT OF SURGERY

TULY 1923

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Rand C. W Ostsome of th Skull Report of Two Cases, One Being Associated with Large Intracranial Endothelloms Arck Surg 9 3, ¥1, 573

A close relationship between hyperostosis osteoma of the skull and tracronial endothelioma is a becoming more generally recognized. Cush mg beheves that I least 25 per cent I cases I proved endothelioma present demonstrable thick ening of the overlying bone

Mallory tates that these so called endotheliomata arms from the arachnoid vills rather than from the dural endothelium. In fact, he demes the exact water of dural endothelium, may taking that the under surface of the membrane is lined with fibro blasts rather than with endothelial cells. He there fore suggests the term arachnoid fibroblastoma
so pref cable from morphological standpoint morphological standpoint lie contends that since these tumors deriblood supply from the d ra, they may in de the skall and acaip but never in de the brain tissue

Rand reports to cases the first, case of hyper ostons to than und, lying endothelioms which filled and grea from both aides of the longitudinal at us and the second case of simple osteom f the skull ith no true intracrani I growth

proper

The first pritient was man; ears of ge who had als; been athlets but had ever received any definite skall tapary The first manufestation of discase was a small, hard, bony lump on the crows of the head near th 1 netion of the suptital nd coronal s tures \) car later following an acute cold the lump as found to be larger than before, and month later after exposure to the sun a convaluen occurred. Mental symptoms then became manifest, and in a period of fi months there ere in con beom chagnosts of Jackson an epileps) as made. At operation, an enormously thereened pace of bone was removed. The pathologic diagnosis was benign osteoms showing irregu lar growth of the bone

After the operation the patient was much im proved but about fiv months later had another convulsion, and in the following nine months mise attacks t irregular intervals. He was able to w rk. but suffered from mental disturbances Bromides were administered during this terval At exam nation after the last convulsio the patient as found very nervous and irritable and complained of headache Neurological examination a is ementially negative except for the eve grounds which showed blurring I the dac murgus, most marked on the right side. The \ ray demonstrated bony elevation a th tremendous thickening f the skull near the coronal and sanital sutures

two tage operation large osteoma hing directly over the longitudinal sinus we removed Con alescence was rapid and the patient returned to his work but was kept under the influence of bromides and luminal. If continued to be irritable and pervous and bout year ad seven months after the second operation had another convulsion sever and generalized. This was followed by t o more about a month apart Mental disturbances then becam foo prominent Physical and neurological examinations were again negative except for blurring of the optic dates. Ventricu lography demonstrated basice f air in the left entricle and a distinct notch on the upper surface

of the anterior horn I the right entricle This was ttributed t a large growth projecting into each hemisphere especially on the left side

When the shull was grun opened a tumor was found growing from both aides of the longitudinal sinus untolving the si us and apparently int ding the brain proper On gross examination the neo-plasm preared to be a viroma \o line of de marchino could be made out Sections ere made and the need closed

The microscopic sections tevesled an endothelionia

of the meninges A cel after the last operation

the ound as agus opened and the tumor removed es masse with cm of the longitudinal is in: The growth as encapsulated and weight 135 gm. A fascus lata graft as placed ver the skull defect and the wound closed

At present the patient's mental symptoms h ve improved he no longer tries sedat ver and is free from epileptic securies. If has guined in wright and is again orking in his former capacity.

The second case was that of man 45) are of age who entered the hospital the compluint of epik pay and severa frontal heataches of four y indication, attacks of mental derangement, wetheres of the left arm and leg, and difficulty in articulation

Examination revealed marked mental agration. The eye ground showed or enfalling of the vents and birming of the date margins, particularly on the pipel and Shight taxas of the opport irrestate muscles of the left hand. The deep reference were muscles of the left hand. The deep reference were no resisted on the left and of the book and there we spouttre. Bahmaki on the same side. The N ray revealed diese shades in the right frontial reposit, about the modified of the control of the left of the

At operation the tumor was removed the small margin of normal skill. It was necessary to open the top of the right orbit. A dural flap as turned back and the brain inspected but no evidence of an endothelioma as found. The operation as follows:

lowed by answentful recovery.

Three mouths later the patient as free from headache and had had no further epileptic sensities. His mentality was clear the nervousiess as less, and the parceas of the left sade had practically desponented.

Days as R. keit. M. D.

Days as R. keit. M. D.

Wheeler W Transmatic Introcranial Aerocele
Lancer cuty 530

In case disgnosed as fracture of the tenor coses of the base of the skull there as an escape of an and cerebrospasal fluid ben the dura as in cased. A distinct respectatory more entered of the frontal lobe as noted. Another interesting feature in this case was the early dilatation of the pipel on the illected side, I the benne of compression and before the cost of menimitars.

Though the patient was benefited to some degree by the operation fatal menupits developed Autopys revealed fracture extending through the right side of the ethicod bone and involving the sphenoid. A probe passed through the fracture poserred the sattory nates

Traumatic intracramal serocele is most commonly caused by fracture in the frontial region involving the amuse, but may follow any compound fracture with a dural tear. The air is always intra-dural. Its preseror may not be suspected ustil it is reverted by the N-ray.

Reference is made t ten cases reported by Grant I cases of serocele found immediately following

injury operation should be performed and an attempt made to close the dural terr; if several days hav elapsed, conservative treatment allowing time for beorntion is advanable

This condition is of interest in that it constitutes another certain diagnostic agn of fracture of the base of the skull V. E. Dunes. M.D.

Phemister D B The Nat re of Cremist Hyper ostesis Overlying Endothelisma of the Maninges Arch Surg. 912, vo. 534

The old interpretation of cranial hyperostessor overhung endothelisoms of the mennager as non-temporous new bone formation caused by stonals ton of the overhing bone by the meningeal timos disceptified the fact that the bone becomes not trated by timos. Themselves the cases and enve the meroscopic findians.

In the first, that of a man \(\tilde{x}_1 \) years of age general symptome of brau tumor had be nepresent for about threy pears, but the lap persottons in the right concept cammation of the \(\tilde{x}_1 \) persottons and the portion of skull from what it spring show of milliration by endothedroms of the vame character as the ustration of the external layer \(\tilde{x}_1 \) distribution by conditional of the right one bout the surface of the external layer \(\tilde{x}_2 \) distribution do not man turned if the present its layer \(\tilde{x}_1 \) distribution of most matter digrestly, tumor cells

ere Lirgely absent. Bone formation from tumor cells we nowhere t. bo seen

The second case that of a man 3 years of age, presented large oval painless suching of bony hardness in the left frontoparietal region. There as entire beence of nervous symptoms. A rocat renorram bowed a shadow in the remon of the tumor high was most dense in its central portion A faint, but definitely radiating shadow extending beyond the outline of the old call armin was cast by the new bose. A prob ble diagnous of meninges! endothelioms it is overlying hyperostons as made and operation performed. The thickened skull as removed the dura opened, and a broad, flat tumor found trached to the inner surface. A rocatgesogram f section of the calvarmm from which the hyperostoses ape ng howed the new bone radiating from both the inner and outer surfaces of the old bone the inner layer showed plainly that ossifcation had proceeded from the inner table toward the dura. Microscopic examination showed timpor nfiltration of the calvarrum and of the new bone springing from t. The tumor as an endotheliona like the primary growth. There were, however numerous areas of new bone which contained little tumor the external hyperostosis contained the least amount. The examination left no doubt that the new bone as not tumor

The fladings in these t cases suggest that the primary tamor arises inside the dura from cells connected either with its inner himing or the arachmodd with latch enter it. As the tumor gross, the cells pencies the dura and invide the overlying hone where they erest atumulature infurence re-

miting in the formation of a hyperositosis consisting of two intermixed portions, namely catchinial times and a newly formed non-timerous bony immersor. The hyperositosis is an instance of osteoplastic imvasion of bone by a mesolikatic timore are originating outside the skeletion. Invasions of bone by all other non-lony mesolikatic timores are conteclastic. Analogous changes are produced by currooms mentations in bone conteclastic, thankpoon changes are produced by currooms mentations in bone mentances, as when conteclastic, then yet in the product stimulate new some formation and osally throughout their substance.

A thart case is reported, which differs from the others in that it moluded local bone destruction. The subject, a woman of 69 had had for twelve your body enlargement in the frontopurscular region and, during the last two years, symptoms of cerebral involvement. Reentgenographic and reaccepts: camanitations showed that an endothellions of the during the produced, fars, hyperesideal, the errors of the culturation from within outst and, and, lastly a layer inosantied tumor external to the hyperesideal.

EVE

Frazier C H and Houser, K. M. Unthateral Exophthalmos A Clinical Report of Five Cases. Surg Clis N Am. 9 3 m., 8

Unilateral exophthalmon is not rare. Five cases warying suddy in pathology are cited to illustrate the diversity of the causes of this condition. The first case was that of man f to years who had unilateral blandness with nauses and vomiting followed by ptoas: An operation on the cy revealed no timor but the nauses and vomiting cassed. The cause of the protrusson could not be determined.

The second case was that of woman with an acute subpersorteal abscess near the orbit. The exophthalmos was cured by evacuating the abscess and cleaning it with Dakm solution.

In the third case that of woman it years of age a slight laying its as followed in a week by severe headache, lever of 100 degrees F and exophibal-most and the severe of cavernous aims thrombous was made, but not venified as utopy was not allowed Other condutions ere ruled out by explor altory operations

The fourth case was that of 36-year-old woman who had had server pan in and above the left eye intermittently for ary years occasional woming, exophthalmos, and prodvement of the cramal nerves. A diagnosis of flat tenor at the base of the brain was made. As operation was not allowed, the diagnosis was not exified.

The last case was that of boy with exophthalmos accompanied by thrill which developed are weeks after he struck has head in a fall. The thrill was relieved by closing the internal carotid artery but the pulsating exophthalmos persisted.

MARCIE II HOMAT M.D.

Wright, R. E., and Barnard, T. W. The Importance of Radiography in Doubtful Cases of Optic Atrophy with Special Reference to Pituliary Dresses. Brd. J. Opids. 9 3 vis. 3

Wright and Barnard report five cases of optic strophy at h paintary changes. Two causes of error in the diagnoss of optic strophy doe to hip poph seel involvement are the frequency of optic strophy of indefinite stoology and the high percentage of cases which show few plandiars reputions when the patintary is involved. The authors behere that a full cases of optic strophy in a which the chology is not definit an X-ray examination. I the repon of the sells abould be made.

VIRGIL WESCOTT M D

Wescott, C. D. Some Practical Points in Refraction. Am J. Ophila. 9 3 vs. so4

A routine method of examining and correcting ametropas which is based on thirty five years e persence is here outlined. All the work is done by appointment, and deepast time is demanded. The history is taken, but only the secential facts are noted in the record. The circumst eye is examined through the small poul. A mydrastic in then used, the parties of the patient age, the funders is re-examined, and made tenoscopic examination is made.

The ophthalmometers used in all cases. Then, after few min tes of rest, the refriction test is done Before the patient leaves the office, seemine salicy late is used to reduce the popal. A post-cycloplegic test is made two day, later and the accommodation is measured in both 3 oung and old, both cyrei together and separately

In examining under tropine to drops of a percent solution are instilled in each eye three times daily until ordered discontinued. The subjective test is epeated daily until the results are the semeon to succeeding days. Vision Wiscout MD

Griscom, J M. Headache from the Ophthal mological Standpoint. Pennylsen: M J 0 3 xxv: 150

Since M tehell and Thompson called attention to the elation between eye strain and bendache, no study of a case of chrome heathers is complete a thour fraction under cycloplegia. A t all headaches are due to ore strain, and in the study of coch case it must be borne in mind that the citiodry of the control of the contro

VIRGIL WINCOTT, M D

Heitster J. D., Some Observations on Eve Lations. of Namel Origin, South M J o 1, xvi. 8

By reporting six cases, Hestger calls attention t the intimate relationship bet een diseases of the eye and nose H emphasizes the importance of distinguishing bet een the supperative and nonsupporative diseases of the nose and accessory simmes. The study of ocular lesions as complete only if a careful study is made of the posterior ethmosd region \-ray examination of the names has proved unreliable and has often led to operate interference which was not justifiable Vision Wincorr M D

Fernando, A S Report of Case of Melanouscome of the Conjunctive. Arch Opach o a ht 68

Fernando reports the removal of melanosarcoms of the conjunctive. As young was only shightly affected, the national refused to allow remo, all of the eve T vests later be returned with seneralized tumor masses in the skill and complain; it of headache, dizzness, and ascites. The tumor masses ere melanquarcoma There as no recurrence of the tumor in the ey ball A DECEMBER 11 PROPERTY M. D.

Reeder W. G. Tuberculin as. Therspeutic Agent in Ourt in Forgus of Keratitis. Illinois M. J. e 1. zim, 24

Reeder gives in some detail the histories of five cases of phlyctenular discuse of the cornes in which tuberculm was used. He does not claim that all of these cre t bereulous but II of them presented symptoms of phly circules. The diagnostic dose of old tuberculm was mem I every metance local focal, and general reaction were obtained within forty eacht hours acgative phase in which the eye became defautely worse for fee day was followed by pourty phase which went on to cure or distinct improvement. In some cases several doses of mgm were given, and murally there was

no eye flare up following the repeated doses

I commenting Reeder makes this statement Focal circation must have its negative stage followed by positive tage if therapeutic results are to be obtained Lemons cuvely in the result stage may not be benefited by protein injections In this connection he cites the case of young man who was given large doses of old tuberculin every t o weeks for the treatment of tuberculous glands Both eyes developed superficual keers but these cleared up after the treatment as stopped

In Reeder opinion the treatment is specific THOMAS D ALLER, M.D.

Verhoeff F II A Case of Mesoblestic Lefornyoma of the Irts Arch Opins 9 1 kg 3

In mone of the few reported cases of m oma of the aveal tract was evidence presented proving concharvely that the tumor was myoma

The author' case is of interest chiefly became t was the first in which tensor of the ms was demonstrated to be myoma by special staming

The long spindle shaped appearance of the cells. the typical rod shaped nucles, the tradency of the cells to occur in bundles ith ocles arranged is rows, and the presence of fibrils coursing along the cells and their terminal processes, as shown by Mal lors a phosphotungstac harmatoxyles stain, left no doubt as t the nature of the growth. In sections of a number of spandle cell surcomata of the choroid od citar, body examined, no fibris were found in relation to the turner cells proper but fibrouls fibrils were demonstrated in the connective these

atrona Another important difference between myoma and spindle cell sarcoms has in the f ct that myone cells are truly spendle shaped whereas the cells of u cal standle cell sarroma terminate in or sead of interally neveral ill defined irregular processes which anastomose with neighboring cells and thus form definite st neytum. That the tamor in the uthor' case was benign was evident from the following facts t Although large portion of the growth left in the enterior chamber it the first operation t did not increase appreciably in som in a period of surtern years or invol a the structure at the filtra tion not

The orangel tumor arose from the surface of the my by a small constructed base point of differ ence from surcoma that mucht prove of clinical

value 3 The original tumor had not invaded the iris

strome

4 There as no mutous normal ev amonth muscle is derived from the parment epithelium of the are (dilator and sphincier paraller) or the w cal stroms (calury muscle) Since the t mor described rose from the

terior aurisce of the iris near its root and more as entwely unpugmented and nowhere connected with the une muscles of premented epsthelium, t accuss probable that it originated from stroms cells of the embryonic uven, possibly from maphared cells hich ordinarily would have taken part in the formation of the citary muscle

C CORRES Y SCIET M D Benedict W L. Tumorand Cysts Arioles Near the

Apex of the Orbit Am J Oshik o a 4 13 Small tumors may exact in the posterior part of the orbit for years, growing very slowly and interfering only slightly with ocular rot tion and vision. The earliest symptom in such cases is protresion of the plobe or proptous. This may precede a mai distorbeaces by several years, and chaturbancs of mounty by several months, depending on the case I the to mor Next to proptosia, ordens of the lide is the most common symptom S elling of the belt is usually greatest when the turnor overrides the globe in the uperior and nasel quadrants. This sign may serve t indicat the most probable location of the 12250

The following operation is suggested for tumor

of the soft tusties in the orbit

The soft parts should be cut down to the houe about 6 mm above the superior orbital rim. The persosteum around the margin of the orbit, and the peri orbits on the superior and nasal sides should be elevated and the co tents of the orbit depressed and retracted until finger ca be easily inserted and retracted until inger to be easily inserted almost to the aper. The orbital contents may then be palpated, and even small tumor felt anywhere w thin the orbit. The peri orbita should then be incised pearest the location of the tumor and the mass removed by blunt desection by small scresors or forceps, with minimal mutilation of the orbital structures

The Kroenlem operation is distinctly aluable for removing tumors w thin the muscle cone when it is de red to save the globe The contour of the face and orbit, however often renders the operation diffi cult as the lateral wall of the orbit may be rather thick and, when turned back, allow little dditional

room for work

Eight cases of orbital tumor arising from the optic nerve or its sheaths are reported I three cases the tumor was located in the right orbit, and in five cases in the left. Good vason was retained in the ey of the flected orbit in two cases, but uson as lost in two cases and reduced to 6/1 or less in four cases. The a crage proptons was 7 5 mm and the 3 CATS deration of proptosis from t months to t Papellordema of 1 disorder or more hunted to the es of the affected orbit, was present in four cases, and optic atrophy in t cases. The fundus was negative in t The tumor was removed by the Kroealem operation in three cases, by the direct frontal route in four cases, and after enucleation of the ey in one case. There were four endotheliomata, three ghomata, and one neurocy toma in the group Good results were obtained in air cases. In two cases brain tumor was found later. In t. o. cases in high the tumor was removed by the Kroenlein operation the globe was preserved, but in one of these the removal of the eye was necessary eight months later because of philium bulbi-1é the thereye, slight enophthalmos resulted but there was no cha se in the size f the globe or re striction of its motility

Goldenburg, M Glaucoma Surgery Illinois M 9 3, xlau,

Goldenburg has done the indotasm operation for daucoma for about five years In examining some of his earlier cases be as highly gratified with the results

The conclusions drawn with regard to the proce dure are as follow Drainage takes place into the subconjunctival

A lowered tension is retained for long period

1 The operation is easy t perform and without dunger

4 Other procedures can be resorted to if seces-MIT TROYAL D ALLEY M D

KAD

France J S. The Pathological and Clinical Aspects of Deal Mutism. Larmoncom 1330M 77

France supposts that instead of dividing cases of deal-mutum into congenital and equired, they be classified more scientifically into (1) those due to an rmr in development (constitutional, dev lopmental d () those d e to or consental deaf mutum) trauma or inflammatory conditions (accounted or inflammatory deal-mutism)

These major divisions may be further divided as

fallow

 Congen tal or developmental deaf-mutum \ Endemic or criticic dealness (Slebenmann's type) Most of the subjects are complete cretins They show only sound conduction deafness chief pathologic changes are in the middle ear come observers find the inner ear normal, while others find degenerative hanges in Corta s orga but only slight change in the pers, and graphia, Opinions as

to the etiology f the condition ary B Sporadic congenital deafness () plasts of the whole labyrinth (Michel type), () cases in which both the bony and membranous labyrinths are affected (Mendim or Alexander type) (1) congenital malformations affecting both the cochleaand vestibular apparatus and (a) sacculocochicar

degeneration (Scheibe a type)

It is suggested that bereditary deafness and otosclerosm re to be regarded as different f rms of one and the same pathological process

Caster a quoted as stating that in his experience desi mutum is usually due t changes in the cortical bearing area and much less often t changes in the ear. He believes the cortical charges re due to menimpitis which is sometimes intra-uterine

Acquired or inflammatory deaf mutlim, the pathology of which is the pathology of labyrinthitis occurring in intra-uterine or post fetal lif

A Deal mutum due to trauma following fracture of the crantal bones, which involves the labyrinth on both sides

B Deaf mutuem due to labyrinthatis f liowing middle car supportation

C Deal mutum due to labs rinthitus follo ing purulent meningitis. The meningitis may occur during intra uterine or post fetal hi Post fetal menungitis is the most frequent cause of acquired deaf muthen. The majority of cases are due to epademic memogates, mensies, scarlet fever "con genital syphilis, or labyrinthitis due to osteomye litus or mumps Concerntal deal-mutam occurs a th equal fre

quency in both sexes Acquired deaf-mutism is much more frequent in males

Apparently about 2 per cent of deaf mutes have parents who were related before marriage. Direct mbentance of deal mutuen is rare. On the other hand, if both parents are deaf mutes from birth at per cent of their children will be deaf mutes. Sta.

tistics tollected from the literature show that if cases of the acquired type of deaf mutium, 16 per cent were due t epidemic manufation, 16 per cent t scance lever 1 per cent to measies. ner cent to pacumonu. per cent to syphiles, a ner cent to traums, a per cent to whooping cough, mumps, and typhosd fever and a per cent to influenza and oneu monia. Consental pythibs as indeed to be the conseof from 1 to 8 6 per cent of the cases of the con-

cental type The functional examination of deaf m tea consists in testing the cochlear apparatus and the vestib-

ular apparatus

Itard classification of deal mutuum is as follows Group conversational voice heard at my feet Group a raised words heard close t car Group to vowel hearing Group 4 loud noises heard, rattle trumpet, whatle and Group a total deaf -

Group c can be excluded at mx months. Group a can be tatesfactorily examined only after the second year of age and Groupe and at the age of at t V COLUM

9 L E. 801

Alexander states that in cases of deaf-mutism in hich the history is doubtful we may assume that the condition is consenital if the static laborinth is excitable W B STARK, M D

Jarvie, D. C. The Effect of Small Doors of Roentstee. Ray in Certain Forms of Impaired Hearing Am J Rectifered 9.3 m by J Treatment of Defective Hearing by Small Doses of X-Rays. Am J Restigned

Jarvis nes Wetherben technique

ma o-in distance, and one-minute treatment time In the method used by McCoy, that proposed by Stokes, the patient is sested 50 m from the target and the rays are applied in turn to the regions of the night car the left ear the occuput, and the open mouth in direction toward the intuitary gland. A o-volt current is used with 4 in spark gap and ma The lateral exposure lasts from ten to thirty seconds, the nostenor exposure from ten t twenty seconds, and the antenor exposure from five t fifteen seconds. I the anterior exposure an opeque shield the perforation vin in diameter is

7 in man, s

held in front of the even. The treatments are given two or three times eekly for three to six weeks Jarvis states that cases with throat symptoms responded best to the use of the roentgen rays, the results being due probably to the action of the ray on the lymphoid tissue. Tinnitus also was markedly benefited

McCoy reports the results in forty-fiv cases treated with the roentgen ray as follows

Outra media catarrhalis chronica greatly im proved, nine shightly improved, mineteen no improvement, seven

Ottos media pumienta chromca greatly ma proved, none shightly improved, tw no mincove ment, none

Otaba media parmienta residua erestly un proved, one slightly improved, one no improve ment, cone

Otoscheroms streatly improved, two slightly re-McCov made the same observation as Jarva

proved two no improvement, two relative to the relief of timplims

With repard t the effect of the X ray McCov be heves there must be an absorption of small-cell infiltration in the emitarinan tubes and nombly at the terminals of the anditory nerve, and perhaps stimulation of the perve. Whether or not a lac there as penetration to the parintary gland is un-known, but an alteration in this gland was suggested in t cases by change in the blood pressure

O M Rose M D

Boyd, R. The Management of Discharging Ears in Children Canadara H Am J on 1 am re

The author draws tumbed to the danger to the hearing in cases of discharging ear and gives instruction for the proper handling of acute cases and the prevention I the chronic condition

If an acute condition does not subude in from one to three weeks after proper measure of the drum one of the following conditions should be sought and

if found given proper treatment A poor general condition

An inflammation in the nasopharynx asso clated with the presence of denoids, or chrome

rhinits with hypertrophied or discused tomais

Concomitant inflammation of the masted as trum and cells Octo M ROTT M D

McCarthy M F The Therapoutic Problems of Acute Maddle Ker Infection Kentsciv M J 013, XXI, 14

The other opens his discussion of the therapeuts: problems of scute myldle our infection by stressing the importance of measures to prevent such in

Became of the influence of pathologic conditions in the nose and throat on ear infections, the first recognite in prophylaxis is to put the some and throat in the best possible condition before infection develops Foremost in this program comes removal of the torsult and denote

After the nasel infection develops, no fluids or omiments should be introduced into the nose, and the patient must exercise care in blowing the nose

After the cute symptoms of the name infection have subsided, the tenerious mucus in the sone may be partially dislodged by bland continent or only

If middle ear infection develops in spate of these precantions, it is of great importance to recognize t at the earliest possible moment. This can be done only by routine examination of the ears during any of the cute general infectious discuses

As soon as an our infection has been discovered. and before the ear drum has bulged outward, the best therapeutic agent is best applied by means of

prigations every three to four hours, followed by the instillation of warm glycerne containing per cent thereof and the external application of heat

During this time daily inspections should be made and the drum incised if there is any evidence of bulging or if the pain and fever increase

Three conditions in which invingotomy may be delayed with safety are described as follows

r Tympanic membrane red but not showing a find line or bulging. Only moderate impairment of

bearing
2 Tympanic membrane red and showing fluid
3 Tympanic membrane red and showing fluid
line evidently of serous character bearing moder
tely diminished drum only slightly bulging low
temperature curve moderate pain

3 Tympame membrane covered o distorted with small serous blasters or hiematomatis hearing moderately diminished moderate pain, low temperature curve.

Myringotomy should be performed under general anguithers except in the cases of adults who are not nervous and those of phlegmatic children

Following myringvices? the ear should be time gated it be backed water bore solutions or 1 8,000 or 1 ,000 bibliorade of mercury solution, prefer skly the last At least 1 of a featuren should be used and given from a fountam syrings 1/5 to ft showe the art. The patient should then be post bed, the backet moved duly illialize therapy given and this none and throat treated. The mastend and the solution and throat terrapy myrings of the properties of the proper

HOSE

Carter W W. The Value and Ultimate F re of Bone and Cartileg Transplants in the Correction of Nasal Deformities. Lety, pacept: 0 3 xxm1, 96

Carter's experience has been confined to the transplantation of satiogenous bone and cartilage in the human subject. If has not studed the uncroscopical changes occurring in these tissues. Rer their implantation to any great extent but has kept some of his patients under observ ten for many years, of by making phyracia and \ raw for the properties of t

His clinical cases appear to show that bone in formed by the so called percoaseous esteogenetic layer of the percoateous the cells of which are protected and himsel on their growth by the connecting the control of the latter. This en clope is analogous to the limiting abrous expaules which separates from surrounding structures all highly specialized

tours such as the liver kidneys, etc.

In none of his cases has there been an overgrowth

of hose, the growth being here as elsewhere regulated by functional demands and the hereditary limits of growth for the area. If the transplanted being her

passive and performs no function, it is absorbed, even though it was well received by the host and originally established vascular connections

In a case in which the tissue was killed by improper handling before it was introduced, there was imost complete disappearance of the transplant after the operation

When it is necessary to build up the bridge of the nose to any extent, it is far better to introduce several thin paces of bone than one pace of considerable bulk

Bone and cartilage are used t replace their respective timeses. The unplanted times usually consists of two-thirds bone and one-third cartilage and is obtained from the eighth or ninth rib at the costochoodral junction.

In the uthor a omitim differences in results are to be explained by (1) the inclusion with the transplant of more or less of the perrosecous esteogrametic layer of the persisterum (3) infection at the time of the operation (3) injury to the transplant in han dling or from heat, antiseptics, etc. and (a) differences in the tissue metabolism of the host

CARL R STREAM, M D

J bson, G B. Headache from the Standpoint of the Rhinelogist Per be self J 9 3 xvi, 36

I recent years practitioners has come to recognize the first that intransal and accessory sinus chaeses are a frequent cause of becare headaches and neuralizars. According to Dintenfass, so per cent of cases with beadache not disapposed and called nervious affections are of main origin, and according it. Tilley, 68 per cent of the course mass of population has creatory along should.

Jobson calls to mind the fact that the trigeminus nerve is the great sensory nerve of the nose and face th ophthalmic and superior maxillary divisions with the vidian nerve being the nerves of common sense tion of the nose As the nasal ganglion, the center of sensory nerve distribution to the nose, recel es its sensory roots from the supersor manifary divi-sion of the trigermus, its sympathetic branch joins the superior cervical sympathetic. The nasal gamebon attracted in the sphenomanilary force sends branches to the sphenoidal and ethmoidal cells, the orbit periosteum, the mucosa of the nose, the roof of the mouth, the soft palate the torsuls, and the nasopharynx, and as in close relationship t the sphenoed, the posterior ethmold, and the maxillary smus When these ca thes contain pus the ganglion is sometimes separated from them by only a thin all of bone and diseased membrane

The anterior part of the nasal civity a supplied by the anterior ethmodal branch of the ophthalmid drawin of the tripmums. The study of sual largedrawin of the tripmums. The study of substraint ethors of the mast caviter and their address look mixtue the nerve supplying them. The imitant may be mechanical (pressure) or chemical (tours from pas). Doe of the simplest nasal conditions causing headache is pressure of the middle turbinate against the explain due t a sphal spar or desistion of the septiam. When ther is congestion of the middle turbinate, a feeling of tightness in the nose at a supra corbital head the are produced. Congestion of the turbin te may be caused by cory as dust pollen or ten from the frontal naise.

Si der a sequin frontial sums headache due to closure of the frontial sums subbot supportation, smally has its primary coupt in hyperplasse of the tructures near the lafundholdm and hates semilinaris the pain is less severe than that of frontial similar. The symptoms is in bill vit use the ope for lose work, high an not referred by treat ment of the eyes and tenderones it the upper and same part of the orbit it that is, the ment of the himdown, and no change in the globe the eye con direct house of the coupt of the eye of the ment consists in opening the nanofrontial due.

Pam is antral deserts in due t the same causes is that of frontal sunsitis. The bendiche is frequently occepital, and simulify there is tenderness over the canine fease. The diagnosis is enfield by the 'v ray findings, the presence of pass in the nose, and exploratory pointure. Headsche and prun from the sphemoid and posterior ethinoid are usually iterred to the occupit, the deep temporal and the parietal reposits of the sub, affected. Headsche from anterno ethnocolid disease way, be frontial or located natures of through disease way, be frontial or located.

bet een the eyes

The treatment of all st us suppuration consists

of drainage and ventulation

The symptoms of Studer' mail grapton ner rosa are those of more or less severe corp as or post ethnocidal sphanodal empyema followed by pun beganning at the root of the nose around and in the cy. the upper jaw and the teeth, and entending beach, the temples and boot the or postal the earlier than the company of the care that the control of the company of the care the company of the care that the desired, and in severe cases it be arm and hand. With this are railing in advisors their sympathetic wordone. The nature of hyperes thetic huntin or hay fever. The publication of counts to the moreast over the mail graption of create to the moreast over the mail graption of create to the moreast over the mail graption of create the desired of the control of the moreast over the mail graption of create the moreast over the mail graption of the control of the moreast over the mail graption of create the desired of the control of the moreast over the mail graption of the control of the more and the mail graption of the case of the cas

immediat temporary relief. Sluder treatment consists in the polication of per cent where intrational to obstituate cases he jects t the ganglion on of 5 per cent phe not and 05 per cent alcohol. He iso treats the discreti minutes.

In hyperplastic sphemoditis there may be multiplienty of pain explores because of the intumit association of many serv. Irraks in the sorrounding repoin. The symptoms is emiliar it those produced by all of the other amuses. The modition is characterized by thickness mixous localized inflammation with sometimes polyps and cysts. The trustment is drawing and ventualizing.

Johnon concludes by mentioning the case of girl years old he had constant and sever pain over the right frontal region which was found t be due t punching f the supra cristal nerve by two pieces f bone which had failed to mit to form the supra orbital fortunes. Guy L Boyness, M.D.

HOUTH

Brown, G. B. Infection and Inflammation of the Investing Theore of the Teeth and Their Relation to the Marillary Shues - Armicky M. J.

0 3 171 40

The other it tes that py orriers has its beginning in guign its which may be due't serious calculus deposited on the root of a tooth and low-grade infection. If the guign its which precedes it were more frequently treated in time may teeth ould be as ad from extraction.

In some cases there as as much as M in of bone between the teeth paces and the antrum, others there is only ery thin shell like bony purition, and in others the processes extend well up into the antrum and when seen from within the antrum is c

bones comb appearance

Infections of the tissues round the aper may triviel t the nirum by direct extension by necross of the

bene and by the hypsh and the blood streams. C we of infection of the trum of Highmore resulting from the extraction of teeth may be drouded in the property () those in which the dental rotal by this the uniterm and on extraction between the board of the property of the board o

Infection does not occur in all cases of perforated antrum, but when food as forced through an open fastials it is peacically certains it des loy. This condition will tend it keep the sums open and retard healing. When drams is mearted, permanent fixtula insually results as the edges of the sums become head in the patchesis those.

A instala following extraction should be closed as soon as possible. If the trum is infected, opening should be made through the pose t promot drainage.

[Agent C Braywell, M D

Berry J Clayton-Green W II Finch, A E. II and Others Various Hethods f Treating Cancer of the Tongue Lescel 923 cur 438

Cancer of the Tongue Leaves 923 cov 438

The methods of treating cance of the tongue ere the subject of ducusmon t meeting of

the Medical Society of London.

After emphasizing the importance of early treat
ment of tongue leasons and the excessor of all doubt
ful ulters, set for microscopic examination. Berigiated his belief that in d asced cases an external
or submanillary operation offers the best chance for

relief Berry does not approve of procedures which soft the check or 1 w. In discussing the nature of the disease he stated that it is essentially local one with very little tendency to form distant metastases, but affects the cervical lymphatic glands early. Early free removal f the primary growth with removal en blee f the nearest lymphatic glands offers hope of permanent cure but if the growth originated in the posterio part of the tongue, the deeper cervical glands (especially the post pharyngeal glands) which are soon invol ed, cannot be removed on blec and therefore perman ent cure cannot be expected Berry doubts whether the so called block desection, a th removal of the jugular eins and ternomist id, was ever worth doing. It is seldom necessary for cases in which the growth a situated on the anterior part of the tongue, and he believes t is generally useless for dranged caes in which the growth is situated posteriorly. Moreover he believes it probable that amuccessful ttempts to dissect out affected glands merely fa or the spread of the disease. The class of cases which he has dealt with he been mainly cases of cancer of the middle and posterior thirds of the tongue

For dathermy Clayton Green claumed these advantages () It in possible by this means alone to destroy the tongoe as far back as the exploitin by an operation through the mouth, and (s) there is no diager of the Implantation of cancer cells in the operation would A disadva use as that the procedure causes a septic slowgh. The slough becomes repute, however only after an interval during which the lumphatics become scaled off. Clayton Green had only one service case of septia among acty in

which disthermy was polied a thin the mouth Pinch described his experiences in the treatment of cancer of the tongue at the Radium Institut Of bout 600 such cases bout 550 were moperable when first seen, and 300 could be described only as appalling. While the use of radium was beneficial t cannot be claimed tha effected a single cure at the Radium Institute However Pinch stated that be knew of one case apparently cured by radium that f physician who refused operation for small growth on the trp of the t gu which had been confidently diagnosed as carcinomatous by two surgeons. The patient treated himself by applying t the growth small tube containing o mam of radium for one hour daily for three months Pinch usual practice in the use of radium is to bury several t bes in the growth for several hours On the rare occasions in which he has seen operable cases he has invariably passed them on t a surgeon In his opinion, there is ery little difference bet een the results of excesson by the knife and those btamed by dathermy

Gordon Taylor stated that he has been driven by his results to perform more and more radical operations for cancer of the tongue. How performs a biliteral block disaction followed: I later period by the removal of the tongue by disathermy. This

operation, which he had been practizing for only five years has already given better remits than the more limited operations he performed previously for of the patients he operated to before 1914 all but one had a recurrence within twelve months, whereas acceral of those subjected to the more extensive operation have surriced for three years. Gordon-To does not besitat to remove portions of the just it is in olved. Not infrequently the operation results temporarily in considerable extensit of the

for same of the tongue only rarely develops in the mouth. It therefore gas block dissection a trial, but had no unprovement in his results as recurrence took place in the neck under the upper part of the stermonasted muscle in the report of the spex of the mastori process and the posterior belly of the digistric. If now makes special track upon this area by dividing the stermonasted to the spex of the mastorial process and the posterior belly of the digistric. If now makes special track upon this area by dividing the stermonasted close t in special track upon this area by dividing the stermonasted that as yet he is masible to daim any unprovement in results from the district of the stermonasted that as yet he is masible to daim any unprovement in results from the district of the stermonasted that the st

THROAT

Moors, R. S. Report f. Case of Safety Pin in the Traches. Large grave p. 9, 2 vzm.

The a thor reports the case of a patient with persistent houseness, chronic phriry gits, and frequent attacks of sore throat. Laryngoscopic examination revealed a white body just below the cricid cartilage. V-say examination above of an open safety pin in the traches close to the larynx. Removal was followed by entire related of the houseness.

RECK

Harries, D. J. The Influence of Intestinal Bacteria upon the Thyrold Gland. Best M. J. 9. 3,1,533 As the busis for this article Harries accepts the

following theories
Exophthalmic goiter is due to the excessive

production of thyronn

Diffuse parenchymatous gotter is an attempt to produce a sufficient amount of thyrozin for the needs of the body through compensatory hyper trophy of the gland 3. In mysordema there is failure of the gland

t produce the necessary amount of thyroxin,
It has recently been shown by Kendall that

thyroum, the ctive principle of the thyroid gland, is tri solo tri by dro derivative of tryptophane Keadail mystigated the factors controlling the supply in the discuss mentioned

Theoretically a should find that in exophibalnic goter the giand is well supplied with tryptoplaine, that is parench matous gotter the supply is madequate, and that in myacetems the supply is ery inadequation the glaid is unable to utilize the supply available.

With regard to the infloence of Intestural bacteria, the inflor believes that coliform type of bird has, an infole producer may obtain prodominance in the intestine and exert a definite infloence on the late of growth of larious other bottom. If therefore drale the following conclusion

I Exophibalmic gotter is due to the excess e absorption of tryptophase from the intestire and this in turn is tra-cable to the bence of the indice.

producers from the intestine

2 The absence of indica from the urine indicates the bease f indole producers from it is testing.

1 I exopathylmic goster the earl dippearance.

- of indica from the urine a upf orable prognostic sign 4 Operatin surgers has defined place in the
- 4 Operative surgery has defined place in the treatment of nophthalmic gotter. I medical treatment much can be done by suitable detetic measures.

6 My ordema is due t trophic leages in the thyroid gla d high loca t picit for dealing

th the circulating triptophase bether that bilance is result deficient or normal is amount. The disease is thus own tible ith the presence or absent formars undering

IV VIII LITTE II

Bircher F Iodine Therapy I Endemic Golter and It History The Jodinera in des endemante kroptes and tree (seabable). Sek vs. and It changle 9. In 7.3.

The athor gives the history of the use of soltier for gotter of empecial emphasizes its disapprove off cts, described as sold-on, the roddom, and soltier for the following of keeker and kirchly against the use of soltier. If then same up the case of such that the soltier is the case of such that the soltier is the case of such that the soltier is the contract of the case of such that the solt Chains there, that defenency of solute is the sole cause of poster - koczens (f)

Kerr W J and Rusk, G Y Acut Yellow Atrephy Associated with Hyperthyroidism Med Cim V 1st 9 445

A certain degree of jamedice is occasion lly observed. The terminal starse of thy rotanceses. The neckasism of its prediction has not been explained it a sems improbable that the modition has any relation to cardiac decomposation and consequent to the contract of the contract of the contract of the probability of the contract of that the layer is it fall because of extract of destruction analogous to cut yellow trophy has not been recorded in clinical cases so far as the thors re are The cuclogy of acut yellow trophy of the liner is obscure and there has been much discussion the better it should be case

astered pathologic entity.

The authors report case of accere hyperthyroid is m in a man 19.5 are of age. Acut __ymptoms had been present for three profits before his diminion to the hospital. All it has vail symptoms excepting exophthalmos are present and the harding

metabolic rat as 78 per cent above normal Radium as inserted into the gland

there mently self treatment on the bosqual there there mently self-treatment on the bosqual treatment of the one of the present the self-treatment of the one of the present the treatment of the one of the present treatment of the one of the other other of the other other of the other other

Autops in de l. hours fier death showed byrend in gwier wh. had been traited by pa tail th redection; a sergeal incusor will bealed of flow cardate, hjerstraphs. In pertrophs of the thinns acut; a llow atrophy of the liver and generalized feterus cat hopersmore objects tumor, pairendymation degeneration of the kilings, and on castion.

The thors refer the oct of II shanots who made hateleges than of the bert in experimental hyperth readon in althou rats. Following four down of the and II shahoot shownered in field parench in the depression of the literature of the sum is likely in the art. Type and in the cert of those found dead at litter periods.

s rrjter UD

Finderica and Hitzler Recurrent Gotter (Ueber Amplica la vi Beste P Chr. 9 cress,

The thors designat cases of recurrence those m hich the enlargement reappears on the side operated piss. Among nog cases subsequently extinued there ere a true recurrences and 14 (see recurrences (as increase in the lobe left in text). In companion of the reports of different

uthors it ill be found that the number of recur ners varies which I has is due I the different currentations and ries of the compilers. The number of cases, the method of operation and the time of the bacquent examin time (Brinner shserved recurrenc (ter thirt) cars) are loo of imnofitance.

Lig ton of the arteries alone is not sufficient. Hemistramectorin is artanted only heality not desirable it emost the entire mass tone time. Fauck-time is be misatefactory. I the clause at Heisdeberg there are seventeen recurrences in thirty-one cases. The value of resection by the Mighairs technique is virroundy reported while Rembath and Dischol has scarcely any recurrences. Knober and Dischol has scarcely any recurrences for the mountain introduced by Footber gives of per Thos muchation introduced by Knober gives much better proposas, but in the Heidelberg claus; there were 16; recurrences in 865 cases. Lighton of the attenes with the operations named appears to offer more favorable prospects.

The authors believe that the factor of charf importance is not so much the method of operation as the type and structure of the gotter. The parenchy materia gotter has the highest rate of true recurrence (to per cent). To prevent recurrency removal it another district or cautious soches prophylazas in recommended. Voltagutor (2)

Defennoy, E., and Dhallium, A. Metastatic, So-Called Benlin Golters Latent Thyroid Carchinens Producing Metastases (Les poirce brines dan métastampes cancer thyroiden latent à métastases) drei fresse befus de chi-

9 XXV 047 This article is based on seventy one cases, one of which came under the authors observation. The authors conclude that the metastatic to called beings immors of the thyroid air really malginant growths because clinically they produce necessates and his a fatal evolution. Histologically the evi-

dence is entirely in favor of malignaticy. The contribution adds one case to contribution and one case to contribution areas 1875.

Brunin and Vandeput Regional Ansechaeta of the Neck and Upper Extremity A Critical and Complete Burley of Methods (Les anestheses réponales du cou et du membre septiment). Arch france leigne de citr g xxv ogé.

Following an echanitre review of the methods of inducing narishbase of the neck and upper trentity the mithors state that in their opinion, injection of the brachial pleans at a point above the cla cle a preferable to para ertebral, anilary subcla make injections. The straich includes see real tables giving the innervation of the sla and muscles of the epons under discension.

LOTAL E D YM, M D

T ylor H M A Case Report of a Cret of the Epi glottle Presenting Some Unusual Features V lock H J & Hal Res 9 3 CVII, 337

A review of forty two cases of cyst of the epiglot to demonstrated that age has little influence on the occurrence of the condition as the youngest subject was a newborn infant, and the likest, 63 years of the Theorem the new found to make the conditions.

gr. The growths were found twice as frequently in males as in females, however and six times more frequently on the imgual surface of the epiglotis than on the lary negal surface.

In T ylor's case the cost was excised to the base and the point i ttachment as exsterned. The

symptoms had resembled those of an atypical epiglottus combined with those of laryngeal stridor Seren weeks after a secondary minor operation for the primary trouble the patient was cured

E C ROMINER, M D

McKenty J E. The Operation of Total Laryngectomy for the Cure of Intrinsic Cancer of the Larynz A Old Rhind & Laryngel of

From a large expenses on the surgical treatment of cardiomat of the large. McKenty concludes that in practically all cases radical operation offers the only hope of care. He is very optumptic, bowever regarding the results I this procedure for in a sense I thirty three cases operated of same ratio the has obtained an apparent care in 66 per cent. Surgical procedures less inducit that radical larguagetomy

I that's three cases operated or same 1916 be has obtained an apparent care in 66 per cent. Surpcial procedures less radical than radical laryagetomy which were used previously gave poor results, the great majority of the persons subjected to them during of recurrence. The factors favorage as optimized the control of the person of the p

Freedom of the posterior part of the laryax

from involvement

3 Superficial growth Cancers beginning in the deeper layers of the larynx may not be more mailing mant, but often escape detection until they are well developed.

4 Extension forward and downward rather than upward and backward 5 The age of the patient Cancers in the late

there's or early forties are more maligna t than those developing in later life

Aryteneed involvement places the duesse on the borderline of the extrinsic class and tremendously lessens the bope of cure. Biopry for diagnosis is contra indicated. The diagnosis abould be made on the history appearance and behavior of the growth and on the exclusion of syphilis and t becculous The less of motthty in the affected cord is almost pathognomonic of cancer This is due to firstion of the general ture by infiltration. The disease attacks one of the cords, usually in its middle third. There a no primary involvement of the interarrienoid space, which is characteristic of tuberculous. The Letts are lamp is of great aid in obtaining a clear outline of the diseased area. The extent of the growth cannot be determined from its appearance as only the upper margin is seen on inspection the entenmon being downward and inward. Mc Kenty believes that it is a good rule to add twothirds to the visible growth in drawing conclusions 44 to its suc

Only the most incapent cancers should be treated by any method other than the most ration), and even in these case better results are obtained by radical operation. The laryax should not be opened for unspecious of the growth as in this procedure there is great damper of meking the growth and thereby specialing the disease. The extrained cases are more rable. The author warns gainst thyrot omy as t is not sufficiently radical to extrepat the disease the only exceptions being cases of cancer which a just beginning. Total larvingectomy is the operation of choice. In thirty one cases subjected to this oper tuon there was no anraical mortality. In twenty pine one-stage operatic was done, and in two, the two stage operation. Two other incipient cases were subjected t thyrotomy. Twenty fiv ratients have entirely discarded the tracheal cannols. which is rarely possible when the to at ge operation se performed. One of the purposes of the one stage operation is t secure tracked and skin union ith

tracheal ring immediately beneath. This gives rigid opening dispenses with the cannula, and adds greatly to the patient comfort. In practically all of these cases an indible whispered once is dev loped Sixty mx per cent of this series of patients are free from recurrence three t fiv years after operation

The surgical principles of the operation are () amentheurs, () the prese tion of the inhabition of blood (1) cleanung and disinfection of the none mouth, nd pharynx, (4) the secure anchoring of the traches stump to the skin (s) proper drainage (6) closure of the wound (7) exclusion of the wound from traches secretions, and (8) the proper pl cing and securiar of the feeding take

The operation is performed under combination of local of general angesthesia. The Toncision is used and the dissection carried back and until the lary ax and traches re-polated. After bration of the each, the induction of general anasythems is berun. the operation t this stage ha ing Leen performed under anesthesia induced with per cent novocame The trackes is now cut across just below the cricoid cartulage th great care t prevent the entrance of blood mt ta himen Before division of the trackes.

per cent cocaine solution are in ies drops of sected mt it between twinning to prevent coughing. The lary nx is lifted forward and the posterior wall of the tracker is incised down to the oppositional sill. A rubber tube which snugly fits the traches lumen as then inverted int the traches for bout traches) extension, turns back the Thus acts as blood, and enables the parathetast t continue the nesthesa w thout being in the w.). The larying is separated from the exceptagins from below appeared to posat behind the arytenoids. It is then allowed to fall be I int position and the thyrohynd membrane is divided an opening being made int the hypopharyna just below the trachment of the epsylottis. Before this opening is made the anes. thetist opens the patient mouth side removes all accretions, and paint the entire cavity of the pharynx hypopharynx and nasal ca my a th per cent solution of mercurochrome. The edges of the opening through the thyrohyoid membrane are grasped ad held part. A yard of groupe folded a m wide is then packed int the hypopharyax and crowded upward until it fills the mouth and phary na

At this point circful inspection is made of the growth II it is found to be entirely intrinsic, the lary nx is removed by cutting as close as possible to the superior border of the thyroid cartilage. The opening thus made in the hypopharynx is small and can be easily repaired. If the disease has approached the top of the larvnx or has involved the arytenoid, more turne is removed, even to the removal of the antenor crophageal wall adherent to the postenor surf ce of the larynx. Just before the last stitch as tied in the closure of the hypopharynx the anxithetus removes the gauge packing from the mouth and gain learnes the pharynx and paints t with per cent mercurochrome sol tion. A feeding tabe which will pass through the nose without undue pressure is prused and when its point appears in the crophagus beneath the untied strich it is directed int the crophages for about 6 in. The point of exit from the nose is carefully marked and the tube fastened t the face with adhesive plaster. The last strich is then tied. If the redundancy of the house. allow it second layer of autures is placed over the first in the hypopharyngeal closure \(\lambda\) i plans cat gut 15 u-ed

The tracked is anchored to the skin of the neck by or three stay sutures passed around rings, brought out about in from the edge of the wound, and tied on small perforated lead ducts. In this manner the traches stump a steaded in the ouad and the strain upon the sutures which to to unite the akm edges with the mincous membrane of the traches is relieved. T. make the imion more exact the fat along the skin edges on both sides is cut

v The skin strip and the edge of the traches are united with interrupted all, sutures. The wound is closed loosely no effort being made t bring the deeper struct res int anatomical order. It is essential to obtain primary union t but one point, viz where the t lines of the Timesson cross A tube and games drain are passed int. the wound it the ends of Just bove the point where the trackes is secured t the skin to small gauge drains are placed, one on each sade. A large trachesi cansula wound ath gauge impregnated with besmuth pasts is fitted tightly int the traches t prevent wound contamination. Without this traches plugging. inne injection would be almost inevitable

The after-treatment consuts in the prevention and treatment of ound infection and the prevention of other complications such as pneumonia, mediastinitia, etc.

This operation has given brilliant results, whereas the less radical measures have recurrence and death BEY N WADE, M D as their usual equel

SURGERY OF THE CHEST

CHRST WALL AND BREAST

Eggers, C. Radical Operation for Chronic Empress. A Surg 9 J. Luxus, 327

In this article Eggers deals with the treatment of deep sinuses and cavilies which hav resisted conservative measure. The reasons for the failure of the less radical treatment to effect, cure are assuably found in such mechanical conditions of the thorax as rigid thorace wall, a collapsed 1 ag, a firm unyleiding pleurs, pockets and receives connected

in the empyremical by which are inaccessable treatment, bronchast communications, and tuber colous. The operative procedures necessary to bring about complete own in these cases consist of more than simple designee and irrugation. The term radical operation is here used to indicate an attempt it the radical removal of the cases of bondered and the colour of the co

This report is based upon 46 cases gathered from army and civilian practice. Most of them had drained from six months to two years, the longest tu h years. The decision to operate as based. not alone on the length of time drainage had contimued, but also upon the local condition found These cases must be thoroughly studied and the operative procedure carefully planned coording to the indications. The patient general condition must also be considered. If he is animus and under nourabed radical operation must be delayed as it is apt to be associated the considerable abock. Prior to operation all patients who had not been so treated were put on intensive Carrel Dakin treatment, with the establishment of good dramage. The severity of the infection was determined by frequent cultures of the secretions. By this treatment healing was obtamed or clean field was produced for the more radical measures. Except hen definitely contraindicated all cases were operated upon under general ether anesthesia. Differential pressur. p. paratus was unnecessary

There were several main groups of cases

Cases the next premi cavity communicating the enterior by a narrow sinus. The group comprised twenty cases. Many of these were cases a had considered the control of the co

g Cases with intractable deep sinuses.
1 Cases with a rigid chromic empresses cavity

with infected walls

4 Cases with a empyema cavity having com-

The treatment of these three groups is considered under one beading, as the underlying principle is the same Healing has failed to occur either because of produty of the walls, infection of the walls leading to re infection I the ca ity or narrow recesses barbor ing infection which communicate with the cavity and have caused recurrence. To meet these conditions it is necessity to mobilize the chest wall mobilize the lung completely remove all infected tissue lining the cavity and explore carrially in order to remove all hidden recesses. The operation is planned and carried out with this object in view Careful hemostasis is very important, as it best there is consider able loss of blood, and the operatio is associated with considerable shock. The wound is closed with one or two short dramage tubes in the dependent pert

Immediately after the operation the patient is go en a hot codec enema containing 14 os of whiskey and / gr of strychome Hypodermoclysis, if required, should be given under the skin of the thigh, so as not to embarrass resparation. Morphine is given freely during the first few days. There is usually considerable acrous or sero sanguineous discharge during the first few days, but this quickly subsides if the wound remains sterile Further treatment depends no the course. If the discharge remains sterile, the drainage tubes are re-moved in few days. If organisms are present in the discharge or it is turbed, irrigations with Dakin solution are gi en once day. This should not be begun until after the first week. If pus develops, as is not incommon a cases in which an incomplete decortication was done, regular Carrel-Dakin treat ment is instituted. All patients are encouraged to at up early to breathe deeply and to get out of bed in from three t seven days

Nucley and cases belonging to these three groups were streated. It some manages it was necessary to were streated. It some manages it was 0.0 these matery and cases, bealing occurred in forty-one in from four to eight weeks were required re-operation. One to total number of patients, party-see me from the stream of the total number of patients, party-see me known to be leaded, twelver he known not to be headed, and ones used and. Although it was impossible to get in touch with macketen, it also summed that the sum of operation of soon after indicated that conditions for healing or of storogile.

5 Cases 1th a chrome open pneumothorax. In chrome pneumothorax the entire lang on one side 14

from

has collapsed because of too early operation before adhenous had formed or as the result of perfora tion of lung abacess and the production of pyopneumothorax If the condition is recognized early the use of the blow-bottle, deep breathing and exercises may correct it unless there is large bron. chial communication Later bowever fibrous changes occur in the lung parenchyma and radical

operation is necessary Became of the changes in the lung tielf the simof the operation is primarily mobilisation or collapse of the chest wall, and secondarily molahration of the lung. The general principles described in the treatment of chronic emprens are followed Portions of from four t eight ribs are resected sufficiently to allow the chest wall to fall in. The thickened parietal pleura is removed. If the patient' conditio permits decortication of the lung may be trempted. The is frequently very difficult If decortacation is not possible, the lung should be freed completely around to margin, the treatment used in chronic empyema then being instituted In most cases in which the condition is recognized early sample drainage and exercises all effect cure If the condition is not recognized early and properly treated, it constitutes very serious problem be cause of the fibrous changes within the lung. Fif. teen patients with this type of condition were treated seven were healed four ere know not t have booled three died, and one was not heard

6 Cases th broachual or pulmonary commu nication. These are divided into cases of huncho. pleural and broncho-cutaneous fistula: The former usually heal spontaneously but the latter require surpocal intervention. The operative procedures employed for the amounted chrome empyema seem sufficient for this condition. Of seven broucho cutaneous fistula encountered in the athor's cases six healed and one was fatal

Cases with tuberculous. The presence of tuberculous in patient with chronic empressa is often difficult t prove. In the series of cases reviewed there were eleven in which nontine evidence of tuberculoss was obtained after radical operation. Of these eleven patients three are healed, one healed and died one year later one is not healed. three did not heal and ched later and three have not been heard from Became the condition as not recognised before overation, these cases are included in the group I ninety nine thronic cases already dis-

There ere sho ax patients in whom the presence of tuberculous was known poor to operation Three of these healed and were powrently cured of the intrapulmentary lesson. One is at present under treatment, one is in government senitarium, and ne has not been heard from

In this series of 146 cases if chronic empyema. subjected t racheal operation the operatitality was 34 per cent

МеМиския Наления М.В.

Du Bray E S. Sudden Death Following There contents Am J M Sc 923 chr. 357

I reviewing the literature Du Bray found that cases of sudden death following thoracentess may be divided into three classes according to their ctrology

I Syncope and collapse follo upr mechanical or chemical imitation of the pleurs. This is the so

called plental roller

Syncope and collapse following injury and congestion of the lung parenchy ma. With this is asso-ciated number of conditions such as air embolism, pulmonary cedema, and pulmonary hemorrhage with or without hemontypes. In most instances several of these factor combined account for the collapse

3 Spo tangous pneumothorax. This has always been regarded as the cause of untoward symptoms and death following thoracentesis in certain small umber of cases, but in the hight of our more recent acounted knowledge these results may be better explained on the bases of the pleural reflex or pul-

monary injury and congestion

D Bray reports a case of his own Several cake after the removal of a tuberculous kulney on the right aide findings suggesting a pleural effusion in the right chest were noted. An evoluratory trocks was introduced in the seventh right interspace in the posterior axillary line. As find was not found at the first puncture, the trocar was partially with drawn and thrust forward in other directions. Dur ing this procedure the patient became cyanotic, and soon fell unconscious After the exploration the condition became steads-

ly wome in spate of all efforts to relieve it, and the patient died at the end of twelve hours

The chief findings of the postmorton examine tion which had bearing upon the immediat cause of death were as follows

Very dense fibrous adhessons in both pleural cavities, both ca ties being practically obiterated. There was no foud in either pleural ca ity Both fungs were markedly ordenatous. The middle lobe on the right side was the ute of extensive hornor rhage. This area extended do n to one of the large branches of the pulmonary can but actual rupture of the year was not demonstrated. In the center of the hamorrhagic area as puncture wound A clots were to be found to the neighboring bron choles. The larger branches of the bronch in both lungs contained considerable amount of frothy

Du Bray concludes that the puncture in the mid die lobe of the right long, which was surrounded by hemorrhage and congestion, and the associated presence of extensive pulmonary ordens justify the supposition that this accident was caused by the combined physiologic pathologic mechanism dis-cussed in the second group. There was nothing in the chincal pacture or the autopey findings to sag gest that air embolism was factor

McVicene Harcieri, M D

a crage time of nine weeks. I eleven, a secondary

shaces required dramage.

The authors conclude that the successful trest ment of acute empy ema is based upon measures pro-

viding dequate drain (gr Descript) Chiny M.D.

Perkhet, J. J. and Burrell, L. S. T. Artificial Procumotherns. Its Application to Cases Other Then Those of Pulmonstry T. berculosis. Le. d., 9, 3, 53.

The a thors review I enty one cause. Only 1 or cause of series treated by infinizing preumothorsis are omitted. These err both cases of brouchiestass in hish the method as it red but found impossible because of the presence of extreave dhemons. The series reviewed included seven cases of abactors of the lung sat of brouchiestass, three of recurrent profess throughly list is of chronic pleanal disease, not there of efficient complicating, sars grow the control of the

In us of the seven cases of long absens the results were eye statisfactory. It of these the absens reprised not the pleural on its following procume thorax, and surgered dramage was necessary. In another of the six there ere discuss requiring thoracopius? In the severalt case there as in provenient but operation was necessary, on account of different with particul that the day, the operation of the control o

If our of the sex cases i furnesherchase there as suppresented. The 1 patients who ere not benefited or operated upon and daed in to distinguish the position of the sex position to the s

It will be seen from these cases that artificial pneumothorsx may be of aloc in baces of the hang bronchectage bemopt is funknow origina and recurrent pleural effusion. In cases of lung b access without obsessors ties sufficient to effect cure and all render more sever operation up necessary Because of the difficult of discovering the above on it is certainly the preferred t drainage. Whe the brees is superficial the pres ence of adhesious may lead under pneumothorax to is intropleur i rupture necesitating drainage of the pleura. If the adheseous are adentwead they may prevent complete ollarge and necesulate thoracoplus Veretheless the uthors diocat artificial presumotherax as routine precedure on the ground that it may be ufficient in itself and, if not that it relieves the symptoms and improves the general condition, thus making t possible for the reduced to withstand the more severe operation

In bronchectus also successful results depend on the absence of themons. In the cases of recur reat harmoptysis and chronic effusion the good results ere triling. Roscox C Wass M D.

Rivière, C., and Romania, W. H. C. Surgery in the Treatment of Fulmonary T. berralosis, Lead 9.3, ctrv 53

It was predicted over one hundred years ago that the treatment of pulmonary tuberculous would begu at meet ith definite success only when a method was devised by which the diseased area could be rendered opinescent.

Of the measures of obtaining this immobile star at fard parenthers a hould first be titrepted Athernat pieurs is one of the chert obstacles to coll pace of the faring Adherent pleurs is one of the chert obstacles to coll pace of the faring Adherent pleurs of the present complete the property of the present complete the processor of the present complete thang collapse they may be spirated by the lectrocautery through the thorax cope, duried with treastone or exparint divorpen operation. The last procedure conducted mode with the present of t

f cted long trasse
When the pleurs is too denselv adherent t permit
When the pleurs is too denselv adherent t permit
Proposed to the presence of the permit pleurs from
the deep fascin and play, allowing the long t cel
lapse insale the cheet w II. The space is then fifted

ith solid medium (parafun ax or adipose times) or these (air or mirogen)

Operations diagned 1 replace potentiologists more arrows than the latter for three reasons () they harder recovery () the harger collapse is more date, occasioning more mechanical of tone disturbance and (j) the collapse is not remediable at the end of trainingst or in case trouble threatens the other hang. T guard guinet the last diagram among carried examination. The condition of the better

long is imperative.

According to Brane thoracoplasty achieves not more than three quarters the collapse obtained by

nuferal presumations

I comparison ith thoracophaty poeumoly is ith parallin parking causes less shock, mutilition, and deformity and can be performed more quekly but parallin in a be extruded. However, spirition of the serior fluid anomicing this complication mavert it.

Thoratoplasty is best performed order gas and one gen and albems. Section of the phrence never in the neet, has been done in some cases it and midiminishing lung atturnion by paralyzing the dia phragm, and has knowned the necessity of removing so may so the lot or this.

The conclusions drawn by the uthors ath regard to the surjoical treatment of to berculous are as follows:

lo

 Persons with tuberculosis tolerate chest opera tions under gas and oxygen better than is generally

supposed. * Extrapleural operations are preferable to the

intrapleural division of adhesions

3 Pneumolyus is the sumplest and shortest of extrapleural operations, and has the adv ntage of effecting localized collapse

A Preumoham is amounted with some danger of sepas, and the paraflin is pt to be extraded 5 Paraffin does not unmobahre as effectively as

extenso nb resection

6 W Il devised thoracoplasty after careful inspection of the better lung gives condition is or able for the arrest of pulmonary tuberculous I E DUDH VID

Saperbruch, F. The Surgical Treatment of Tuber culosis of th Lung (Die chuurgashe Behand lang der Laugentuberkulose). Hier med II in ×× o leau, 965

thor given short historical review of the surmed treatment of tuberculous. Great advance ment as m de f llowing the introduction of arti ficual pneumothorax by Forlanini Forlanini had noticed that recovery occurrenally occurred after large pleural exudat or spontaneous pneumo thorax the immobility of the affected lung permit ting healing. In the presence if adhesions extra pleural thoracoplasty may be eccessivy. This operation is usually carried out under local aniesthesia The rejection of the ribs from the leventh t the first at one utting is ery dangerous ad should be ttempted only by a cry experienced operator and then only in the presence of fairly rigid medias several stage operation the lower ribs should be removed first in order to prevent aspiration. int the lower functioning lung

aperbruch experience now includes 501 cases The operative mortality amed from it a per cent per cent mortality in the first few weeks. however must also be attributed to the operation A cure was obtained in 33 per cent of the cases. I some of these aix years or more have elapsed since the treatment. In 7 per cent of the cases the condition as improved

Extrapleural compression and phrenicutoms are be considered as component of extrapleural

Approximately 5 per ent full cases of lung tuberculous are operable B CONDI (7)

GEOPHAGUS AND MEDIASTINUM

GRLE G A Wire Ring in the Gaophagus Larra THE PE O 1 XXXIII

I miant 7 months old suffer d from cholung spell after nursing \ray examination showed a met tilhe ring in the co-ophagus, thirts lower border opposit the sternocla scular joint. The ring was successfully removed through small lary goscope thout the use of an mesthetic

Laboy F IL: Œsophageni Diverticula. Baston M & S J 9 3 chxxvn, 335

D verticula of the esophagus ha e been classified by Bensande, Gregoire and Guenaux int occopha real and pharyngo crophageal. True di crilcula of the assophegus, the traction diverticula of Rokitan sky may be epiphrenic or epibronchial. In this paper the author deals with pharyingo resophages) diver ticula the pulsion diverticula of Zenker

Pharyngo cesophageal diverticula are al ay sin ie and located on the posterior or the posterolateral wall of the pharynx just bo e its junction a th the asophagus They project from between the fibers of the oblique and transverse bundles of the crico pharyngens muscle division of the m ferlor constructor of the phurynx. The pouch occu pies the prevertebral space behind and usually to the left of the ersophagus, between the layers of the

preventebral and pretractual fascia.

The chology of these diverticula has been a mooted.

question, but the latest investigations fa or kulenkampil's theory that they are nalogous to nguinal hermie in that there a congenital muscular hiatus covered over by elastic tissue. The elastic turne relaxes a th age, and bermation of the mucosa results from mercased intraphary geal pressure The increased intraphary neval pressure is timbuted the spasmodically contracted fibers of the inferior

defect in the neuromuscular mechanism whereby constructor muscle fail to open in coordination with the propuls: a action of the pharyng

Phary ngo-resophageal diverticula manufest themselves in middle or advanced age. They occur fou times as frequently in men as in women. The symptoms ha e been divided by Starck int the prodromal, the direct, and the indirect. The prodromal emptoms, which may be present for years, include the expectoration of mucus, drypess of the throat or sales toon, coughing and choking cautious deglut tion, and I times feeling suggest ing the present I a foreign body in the throat Direct symptoms develop when the sac has attained sufficient size to obstruct the grouphages by pressure or t close the ersophageal opening by traction Gradually increasing dysphagia then develops, food ratches in the throat, and finally houses cannot be swallowed. Regurgitation also j occurs but may be delayed for hours after the taking of food Indurect symptoms res lung from the pressure of the distended are consist of dyspaces, bourseness, and chancers

The \ray will demonstrate the sac filled with been th extending posteriorly and to the left of the pharyn A flat fluid les I is usually demonstrable

The medical treatment is confined to the passage of resophages! bouges to dilat the resophagus and to overcome the spasm of the inferior constrictor muscle 5 ripcal treatment is distable when the diverticulum increases in size and smallowing be comes progressively more difficult

The surposal treatment comusts of a t o-stage operation as outlined by Murphy and later modified

18

by Judd. In the primary operation the pouch is exposed and freed from the surrounding tissues, the neck of the anc autured to the edges of the skin, the wound closed, and the sac left unoccored. The author modules Iudd's technique by partially t int. ing the neck of the sac before implanting t in the skin wound to prevent leakage after excision of the sac at the second operation. The second operation performed ten to t el das later con sests in cutting ay the sac so that mucous canal is left connecting the crophagus th the Li The thor then repeatedly cauterizes the tract

with crude carbolic and t f or closure Labey reports case treated by the method described, in which, thirty seven days after the operation, there was complet closure of the mucous tract and no difficulty in allowing The X ray demonstrated complete bience of obstruction t the level of the knoon Diversi H Kern M D

Mayo, C. II Th Treatment of Diverticulum of the (Fambhagus, Inn Surg 9 3 lex

The author review the literature relativit diver ticula of the ersophagus and concludes that these lessons occur more commonly than is generall supposed. The types of di erticula, the etiological factors, and the dragnosis are discussed. With gard t the diagnosis mention is made of extinination by means of sounds guided by previously swallowed silk thread, as developed by Planamer The value of fluoroscopic examination after the ingestion of

barrum emulaton ta emphasised We the regard to the use of surgical measures in the treatment, the thor tates that the type of operation employed should depend on the size of the sac When the sac is small, the operation can be done in one stage the sac being amputated and the fistule closed with t row of chromic cateut When the sac is large, I should be deli ered un opened and imputated from ten to t. lv day later In the May Chine seventy four patients ere operated on for this condition. There were three deaths

Jankowski Total (Esophagoplasty (Urber totale Octophagusplastik) Festi sest, o

The author reports the cases of four patients oper ated on for stenous of the croophagus caused by lye T are area ble to take nouralment by mouth In one case there has been pacrease in eight from oy t y lbs in tw cases the connecting skin t be is still absent

Previous to the plastic operation, gastrostomy was done for improvement of the patie t general condition. The plastic operation committed in form. ing from the jejunum an ant thoracic subcutan com tube behind the transverse colon and in front of the pars pylones of the stomach, extending up to the third nb. The comphagus was divided transversely the pronoul end fixed t the musculature, and the datal and sutured int the skin ound. The construction of the ante thoracic skin tube was done by flap operation

In the discussion of this paper Zoege on Max teuffel pointed out that thick, soft sounds may be passed directly after the injury for the prevention of stricture If perforation of the omophagus or stomach occurs, this is due to the depth of the erouon and not to the sound Scenero (Z)

MISCELLAREOUS

Pringle J H | I tratheracic Catastrophes Semelating the Acute Abdomen. Lencel 1913 cor

The thorestes t cases in inch the durical findings aggrested the condition called by some writers the acute surrocal abdomen characterized by severe abdominal nain and marked randity. The first patient was prepared for operation but was not operated upon because of a change in his general condition. I the second case an exploratory operation was done but the abdominal organs ere found normal Both patients died

w thin few hours after their admission to the hos-

retal, the first of occlusion of the left corneary artery and the second of rupture of the norta la both cases arteriosclerotic changes were found This report is made because in the author opinio the possibility that lessons of the large essels of the chest may cause symptoms resembling those of acute abdominal conditions has not been sufficiently emphasized Rairs B Berricas, M.D.

Childs, S. B. New Grewths Within the Chest X Ray Distrocks. Am J Remissed Ott. L. Itali. J. N. New Growths within the Chest. A=JRecuiremed o L.

These is papers were part of symposium With regard t the \ ray chargoons, Childs divides intrathoracic growths int two classes (1) those is the mediastmum, and () those in the bines. Conditions involving the mediastraum racinds Hodgica s disease lymphomercoma, intrathoracic thyroid, enlarged thymns, cysts, sarcoma cold abscess, and a De la Factoria

Beick disease This condition is generally show by paratracheal dense shadow projecting beyond the mediantmum with border either lives lar is outline or circumscribed and clearly defined It m usually belateral, but occamonally unitateral. Lymphosercome Lymphosercome begins in the med ustimum and is apt to increase rapidly in airs and is oly the lang or plears or both Frequently

enlarged supractavacular lymph plands can be detected. Upon microscopic examination the latter determine the diagnosis Introtheracs: thyrese This condition casts a fairly

characteristic shadow of uniform deasity in the upper part f the mediastinum. The base of the shadow is upward. In its lower extremity its diameter is less. Its edges are well circumscribed

Enlarged thymns An enlarged thymns casts a small, inverted beart-shaped shadon which over laps the sorts and the base of the beart. The \-ray diagnosis of this condition bowever is not particu-

larly rehable

Cysis Cysis cast a characteristic shadow which is generally well currenteenbed and of uniform density A demok eyst is characterized by a distinctly clear cut border carcumscribing a round dense area which usually projects from the right rade of the medias-tinum. This type of cost is usually single and the shadow cast by teeth or pieces of bone may be seen within it. This finding and the expectoration of schaceous material or hair are confirmatory. Abo il frequent examinations over a considerable period fail t show any marked change in the size of the cyst and no evidence of secondary deposits in the chest, the duemous f dermond cyst is greatly strengthened A cost may be overlooked especially if it is overshadowed by the heart. A large area of transmission of the cardiac impulse when neither the suse of the sortee or heart shadow nor the interesty of the heart beat warrants such transmission, should suggest a mediantimal lesson

Frency growns Primary sarcoma frequently has its ocupan in the thymnes or thyroid, and may become very large. Beardes producing marked pres. sum eventions clinically this tumor expensity shows dutmetly in the \ ray examination in the form of a

round shadow with a clear cut border

Cold advers This condition frequently presents an appearance aimulating that of new growth It produces a dense shadow overlapping the shadow of the spine belaterally. An ordinary abscess causes a dense shadow which may present beyond the edges of the modestmum but the diagnosis depends largely on the chascal history

Asserting The diagnoses of encurson is usually not difficult but occasionally a case is seen in which pulsation is diminished or absent. The los position of the heart and the flattened left ventricular margin

are of value in the diagnosis

One or more mance may semify inherenkers glands or primary or secondary carcinoms. The shadows cast by these conditions are practically the same. The fact that tuberculous glands are generally found in the posterior medicatinum while cancerous notales occur more often in the antener mediastinum, is of aid in differentiating them Carrinoma of the osophagus should be mentioned with the growths of the mediastinum occurring in the poste mor portion. An opaque muxture is the croophagus ards in distinguishing it

New growths in the hungs are divided into benign and malignant. Excluding poeumocomous, acgrowths of the lung are very rar Childs has never seen an erchinococcus cyst Hall reports one The malignant growths are divided into primary and metastatuc

Premary sercessa. The occurrence of this growth in the lung is very rare. Chikle has no proved case to report

Primary carcinema Primary carcinoma of the lung is not common, but occurs often enough to make it an important condition for the roent renologot t bear in mind in all cases in which the \-ray chinical, and laboratory evidence does not warrant a diagnosis of one of the more common pathologic conditions There are two types that of the lobe and that of the hilus The lemons of the hilus predominate and usually invade the parenchyma in their progressive development The shadow is estally roughly circular shading off into the hing shadows, with processes radiating into the lu g In addition there are a few nodules with indistinct edges surrounding the central shadow or in relatio to the bronchial trunks near the pemphery

The metatastic deposits in canter may be general in both lungs or confined to one lung. The \ ray findings consist of generalized nodules in the lungs or localized deposits in the line of lung markings generally involving the lower half of the lung and

apparently beginning at the hiller

I ben the please is involved in the metastasis before the lessons are demonstrated in the lung the first sign detected may be only restriction of the movement of the dusphragm on the side which is affected

Cancer metastases in the bing to comparatively frequent, especially secondary to carcinoma of the breast \(-ray examination of the lungs is therefore recommended before radical overation

Hall speaks of the increase in the mosdesce of mahamant disease within the chest. The diagnosis is made in from 80 to 90 per cent of cases in some clinica, but in others only occasionally because of a general lack of knowledge regarding the condition and of facilities t investigate it.

Mangasat duesse within the chest involves pri marrly and accordarily chiefly the following structures the lungs, including the brouchi, the pleure the mediantinal glands, the thymus, the thyroid,

and the assophagus. Teratomata are also to be conndered

It is in the lungs and brough that the recently noted increase in malignant disease has occurred, and the opinion is general that the source of these growths her in the frequent residual lessons left in the wake of the great erademic of influenza Undoubtedly the factor preceding the malignancy is chronic arritation with inflammation. This is borne out by the fact that malignancy in this group is practically limited t males and usually occurs after the fortherh year of age

Primary carcinoma may be of the sharply defined nodular type at the root of the lung or of the mailtrating type spreading along the broughled tree from the lutur Occasionally it spreads along the thoracic

Secondary carcinomatous involvement of the lang is very common Warfield found lung metas-

tases at antopay in 178 of 516 cases of carcinoma of the breast. Metastams from primary cardinoms of the lung occurs most frequently as the lymph nodes, and next most frequently in the liver. Bones and

other structures is occasionally affected.

Primary success spreads out and more especially about the median favore on the left side and the

median lobe on the right side.

Secondary surcoma of the lung is more often seen as late development of a rooms of the testicle Metastases of hypernephrona are fairly common The mystoma as smalls for the a fairly common

the symptoms are usually first those of inflamma ton, rather than the presence of new growth Later mechanical pressure destruction of turne

et are noted

conclusive

The easet of the condition is slow and asson; ted with dry cough and sight expectoration. Later the spectostical material becomes blood staned, and facility bloody and gelationes. The diserse in progressive and characterized by increasing excheria, apprention of bloody froat from the clear, suggestive apprention of bloody froat from the clear, suggestive the findings of the increocopic transmittion of its excited it may listed which has become charged are T berculosis and syphilm must be ruled out at every case

Primary mahganacy of the plears is smally us lateral and came the usual symptoms of pleaner. The asparating needle passes through the leathers. The asparating needle passes through the leathers with difficulty and as a rule bloody find a widdraw. The Nary show plearal thekening. This may be ery marked, looculation neutratizes my dis-elop long the needle track.

Secondary malitrantal there of the pleaners.

much more common than primary and comes from the breast storusch or neclastinum

Surcoms is less common than carcinoms

Malignant tumors of the mediastimum usually rise from the mediastimal lymph glands or the thymus, but an berrant thyroid or the osophages may be the nount of orans

Sarroma is the most common mediastmal greath Lymphonercoma, Hodgkin's disease, and leukamis are not infrequent. Teratomata are rare

Secondary growths from neighboring malignancies are common McMages, Hischert M.D.

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Morgan, D. H. Brain Injuries Without Skull Fractures. Ohio State M. J. 9, 3, 237, 57

Crunia injuries call for shifful observation and treatment to as the life or the first mental condition of the witim. These cases practically sharps are looked after personshy by the general practitioner and it is upon him that the borders of proper instances that an early disposed of the crunial and influences that an early disposed of the crunial and influences to the properties of the crunial and influences and the complete of the crunial forecast the properties as that of increased intracrunal pressure or beam mury. Each case is study in stell and consultation as the a surgeon and a neurologist about he had for all cases wherein brain injury or increased intracrunal tension is

suspected
The symptoms of acute brain injury are bestache hauses, and vomiting. Unconsciousness may or many not be present. A dazed feeling and confusion may be the extent of the mental change. In mild cases the headache clears up in a few days in operative cases it creats promptly as soon as the acute brain appures are continuous, exchyriouses about the orbits and masterd regions, hemorrhage from the sone mouth, or can hematicons, and life the charges, aristons in the public rate respectively abnormatities, high blood pressure, peralyus, impairment of sensation, inconcernaces, real-scanes, propriets of the pressure particularly and almost our many optimization and the contraction of the

Surpical procedures should not be done without evidence of steadily increasing intracranual pressure or depressed skull fracture

The nution arm guest indiscreminately operating on all shall fractures and urges conservation. Intracrinal interactural and urges conservation. Intracrinal tension, however, is an emergency and should be immediately relieved by decompression operation. Such relief of tension is effected in cases of fracture when the creebrospinal final escapes into the massl of surface varieties of intracrinal presence with profine later tages and the profine later tages of the profine later tag

The psychiatrial does not often see cases of cute brain injuries, his beer attons being limited to their after results. Many cases present mental symptoms and physical findings directly traceable to the injury. A few may be relieved by surgical procedures. In all such cases it is important to different

trate functional and organic leasons, a differentiation which throws great responsibility on the psychiatrist, especially in medicolegal cases

The general practitioner the surgeon ad the paychatrast therefore ha common interest in cases of this type, and should consult with each their in order to obtain the best possible results. Bry N Wars, M D

Grant F C. The Use of Air in the Diagnosts of Intracranial Lesions An Illustrative Case. Surg Cit. Y Am. 0 3 nt, 80

The author describes—method of outlining certain intractantil enous with air for X-ray diagnosis. If at operation a cyst is found,—cannula is introduced into t, the field is evacuated, and air is introduced. The reentgeogram will then give noutline of the cyst.

Another helpful procedure is the introduction of air into the entiricles for \times ray examination. The author cities case in which this method was uccessfully used to determine the location and extent of a symmators growth in the silent areas.

Marcia H. Hornet. M.D.

McCannel, A. D. Aerocale f th Brain, with Report of Cases. Levy perspect 9, 3 xxxii, \$80.

T the ten case collected by Spaller the author adds new case which he reports with reentgeno-

Frams
The patient a woman recei ed a fracture f the
frontal bone in a natromobile accident. This was
followed by partial loss i reason in the right eye with
slight expitibilities double vision and turning in
of the right eye due to complete paralysis of the
of the right eye due to complete paralysis of the
of the right eye due to complete paralysis of the
bessen at rs in. In the left eye whom the right
about three seeks later second roomigenogram
showed large round area of diminished density
directly beneath the site of the fracture into the

right frontal since.

Two months later the area of diminished density had despised. Fundus examination showed the optic nerve to be rather white. Venon was so/so in the left.

McCannel conclusions may be summarized as follows

Aerocele of the brain, or air in the cramal cavety is comparatively rare condition, but probably not as rare as it suggested by the number of cases recorded.

Acrocele does not al vs appear t the time of the traums or accedent, usually developing tw or three weeks later. In all cases of head injury especially in fractures near the sames, a search should be made for this condition. weeks

- 3. The contigenogram is the only means of making a diagnosis.

 4. The cathology of the condition has not have
- 4 The pathology of the condition has not been definitely determined Cast R. Sterson, M D
- Eurtzahn H. Ramtigenological Observations en the Treatment of Epilepsy with Introduce Irradiation of Ore Advansi Gland (Restigenciousche Bemerkungen um Epilepseteisandung darch Interarbestrahlung einer Nebesuner) Arch f Prychet Newscharkh v. j. krv. 19
- The technical directions for comingen irradiation of the adreads are given. The irradiation of one adread was undertaken by the wither in the treat ment of epilepsy at the suggestion of Klimberger The left dream sjand was chosen in order to work fargring the liver and pancress. Injuries of the spicen, were eliminated by the technique.
- T rectangular fields were uradiated () doe sal field, in which diagonal lines ould interest each ther at a point at 3 cm lateral to the ertebral column at the level of the articulation of the cleventh rib and in which the fornitrodical to was par allel with the critebral column and (s) ventral
- field, opposite the dorn't field.

 The dosage which was effective in the depths ore responded approximately to the custration dose of Seits and Wints for this persons. Up to three are distrious were given to intervals of t least eight actions, were given to intervals of the least eight.
- Puesep, L. The Surgical Treatment of Epilepsy Twenty Years Observations (Dic thregache Behandling der Epilepse nack so pathigen Beo bachingen). Kliss ills charles 9, 1, 4
- Punsep has operated upon 3 8 cases of epilepsy in the last twenty years. He reports the changes found t operation and the operative results in statistical form without any details. His conclusions are as
- follow.

 Operative interference is indicated in circumscribed cartical epilepsy provided the tracks have

not been occurring for a long time

- In traumatic epilipsy operation is indicated only if certical brain a populous are present. In all other cases operation is not indicated, and in status epilepticus surpical measures should be employed only as a last recent.
- In regard to the operative technique, Prassey emphasizes the necessity of forming valve and removing all pathologically changed across of the cerebral memages and corner. If no microscopic changes are found, centers of increased stratability should be sought by electrical attandation of the cortex and these showed be exched to a depth of 5 cm.
- Anachuetz The Results of Palliathe Trephination for Brain Presure (Ueber Frieign der pulisitren Trepanatou but Ilinadruck) Draincle wei Wickerie 9 ahra, 406
- With regard t the results of pullsative trephination for the relief i brain pressure, won Essishers and Ransa have reported mine cases, Dedekind four Knettner forty two and Brade thirty six. In this strick Anschuets reports fifty palliative trephinations.
- As averages do not give clear pacture when the prognous areas so widely American groups his cases according to the level of limiting pressure I ten cases, however the measurement was not taken because of the fear of complications. The four groups made are as follows:
- In this most hand, in the first were saven cases we have the control of the contr
- G say 2 This group included twenty four cases with lumbar pressure up to 600 mm. The mortality was 5 to per cent. Eight of the patients deed during the first year and only a small lumber lived longer than three years.

DESCRIPTS OF SURGICAL TREATMENT OF PRILEPS

Warde (Z)

RESULTS OF SURGICAL TREATMENT OF FPILEPS											
_	here of splinger	Occupations	1	America de	spared by		Attack	. Nacama	34		
			Perce	Per cres	3-9923	7	Year	N mber	_		
- 1	Langual and they a) bestim applications (response experience) a) Common transmitter experience	-							27		
	Continue objective square of in party of shall Common transmitter of layer with objective sages of in lay of	*			1				#		
	ricali) magazini carlecal systems magazini carlecal systems mag	-		1		1	7	•	-		
i :	Department Control of	"			14	7		:6	-		

Great 3 In this group there were twelve cases in which no measurement was made. According to the syndrome, they belonged t Groups 1 and 2 The

results also were similar

Group 4. Group 4 included seven cases with lum bar pressure over 600 mm Operation was the last resort, and proved injurious rather than beneficial Since some of the patients came to operation in a comatose condition, the poor results were not sur prising Coshing's operation was performed and, when possible, was bitemporal In order to prevent bulging of the brain, sutures were taken in the muscle before the dura was opened The sphenosdal portions of the calvarium were removed with flat forcers in the direction of the foramen spanosum The trephning was carried further on the right sade than on the left, to avoid the frontal speech center

Although the most experienced neurologists dmit that the diagnosis of tumor of the brain can never be made with absolute certainty and confusion of such a mowth with internal by drocephalus, meningstis serosa, paeudotumor etc 15 common, Anschuetz agrees a th Horsley that an early operation is in dicated in all cases of continuous brain pressure.

Mixter W J Ventriculoscopy and Pancture of the Floor of the Third Ventricia. Besies If & 3 J 9 3 charavus, 277

Puru (Z)

In cases of non-communicating hydrocephalus the introduction of a small sound through the floor of the third ventricle and into the interpeduncular entern allow cerebrospurd fined to pass into the barachnoid space. In the case of a child 4 months of are who was admitted to the Mamachinetta

General Hospital with marked by drocephalus the ventricles were tapped but soon refilled. Indigocarmine injected into the ventricles could not be recovered from the granal fluid in forty-fix minutes Six months later the hydrocephalus had become extreme

Under other angesthesis an opening was then made through the fontanells in the right temporal region, and through an increson in the dura a prethrescope was passed into the lateral ventracle and through the dilated foramen of Munro for explora tion of the third ventricle. Under visual guidance femble sound was then passed through the floor of the ventricle and the opening enlarged. Fluid escaped through the opening t once. The grethroscope was then w therewn and the mersion closed Ten day I ter simultaneous entricular and lumbar puncture showed identical manometer readings. mongo-carmine injected int the entricle ppeared t the lumbur needle in thirty seconds, and the curcumference of the head had decreased H in

Later results are a sated with interest The author states that puncture of the floor of

the ventricle is camer and more satisfactory than puncture of the corpus callosum suggested by F y and Grant RILLIAN J PRESERT M D

Martin, J P., and Greenfield J G : Tumor in the Casterna Magna. Proc Rey Sec Hed Lond 913, IVI, Sec Neurol 1 Three years before he entered the homital, the

patient, a man about 45 years of age, had first noticed a pracking sensation in the left hand. This gradually spread, weakness in the legs developed and paralysis of both arms and loss ensued.

When examined, the patient was evanotic and unable to move about in bed. The eye examination was negative except for ptosis of both hds Sensa tion to pro-prick heat, and cold was retained Posttion sense was lost in the right rm. The muscle nower was variable. After movement it was fair but the patient became helpless after lying m bed The muscles of the abdomen and chest were flabby There was n fibrillation Movement was much neaker on the left side than on the right. The deep muscular reflexes were exaggerated. A double ankle clonus was present. There was no incontinence The Wassermann test was negative. The patient died of hypostatic pneumonia

Autopsy revealed in the casterna magna a firm and pear shaped tumor which weighed 3 5 gm. This growth by against the foramen of Magenda and its arger end premed upon the right lobe of the cere bellum The foramen of Luschka was patent There was shight hydrocephalus. At the lower end of the medulla the tumor compressed the night dorsolateral surface of the first cervical seament. Pressure was exerted also upon the coneste and gracile nuclei The tumor was a fibrous meningeal endothelioma WILLIAM J PROMPTE M D

France C. H : Some of the Surgical Problems in the Management of Pitultary Disorders. Serr Cha h Am 93 m. 13

Surgery as performed on the ortuitary body chiefly for the rehef of pressure, especially pressure on the optic tract. Three groups of surgical conditions are recognized (1) adenomata, () tumors having an anatomical association with the pitultary atruc ture such as tumors of the pouch of Rathke and of the hypophyseal duct, and (3) suprasellar growths or peughborhood tumors

The symptom of chief importance is the visual disturbance. Usually this is more divanced in one eye than in the other. In I least 50 per cent of the cases seen by the author in the chase, one eye was

totally blmd

Radiography is always necessary as an ald to diag poses and a guide to treatment. The primary intra sellar group of tumors cause a characteristic deep cup-shaped excevation of the sella, but the posterior clined processes are atrophied and the sella appears clongated rather than deepened. The cysts and duct tumor may show sharp delineations from calcureous deposits. The sphenoid sinus may be partially or practically destroyed by the encroachment of the growth In such cases a decompression alone will not be sufficient. The third entricle will be outlined in the entralogram

Clandada the raw is not all much value. I adranced cases which blandness as three need onera tion should be done

I Not a territor tithe regal field a en role of the effect eness f trentment. The anthor cites the case of oman who had ocutring must and ther distributores after sub-cllat decompression, but as rured by / theraps

Surveyeller lesions should be approvided operain 1 by the frontil rout Several cases a high

done re-cited thu

The primary atravelly type of t mor should be operated around the transphenously mut. If second by operation pecessars the transferrated

operation is rolly ted. There were no de the in the thor cases t while the tra sobeniedal operadone The mortalit of the tra strontal operation in a la othe a 40 ner ent

C st at difficult t deal th If thes tot Il turnated the may rebli

Vision has been unnersed g per ent of the athor we tra all rite tment should reduce the inculence of courrent

March Honer VD

Laurean, T. H., ad Smith, J. W. Hyperchyses! Duct T mart Child | Ten her Green b 10 u

I the thirt with uses of he pophyse I duck t morreported by J oleona in g 6 the seventee report d by Dull in two and the thre reported by Basks in g the thors dd case in which the symptom t fir t led to diagnos of ppen dicities bulinering the on the books 6ndi es to the brain oper tion id me for exploration and cer bellar decompression. The p tient died shortl aft rand

A tone revended it more light the size of a large alout I mg bet era the olfactors nerves beneath the optic chain in oil in the expon of the infindib alar at Ik to buch turner red t be starhed. The will had reference defaut troops and destruction of t posterior all The tumor was cy tie It ppeared t rue from the auterior portion of the pituitary gland and the space normall occupied by the third entrical occludate the foramen of Munro nd came at the shight internal hadroversh has which had been previously demonstrated by the X ridamantinomatous pperrance on micro-coroc examination suggested to origin from the bypoplay seal duct rests Dr N Cene MD

Fracavil T Spentaneous Meni geal Hemer rhage (Hemortagia merangra rejuntane) Ker mild & R recto ER #01

The cause of spontaneous meni geal in emorrhage is probably some change in the blood exists due to an acut inflammation true harmorrhagic menunco encephilitis in hich the yndrome of meningral harmorth ge is dominant although it tops; hamorrh gic foci may be found only the cere hrum The condition is often onfused ith their

ad la t I the cases reported by Fracass the n tient had been treated for cerebrorounal menua min

Although I arasal h been ble to find only a few such sea reported in the Arcentine medical litera ture he believes it necurs more freemently than is generally apposed. If gives the bi torics of eight cases which he has been ble t collect in the past t o erry. These er cases of subtractional bemorthage occurring suppriancous! In persons presently healthy or with orde and beales affect tions I high ther was no es dent recebus cal ct we for the beson such as realcosy the crain of labor (c

The tree of harmore's ser occurs in a thorn the are period. The maket cerebral appoless is rare The memoreal harmorrh go sprimary and although hymnerburse for are found on the cerebrary at a topey the rene or relation t the substrach nord calls. The mimpt main the majority of cases r typical the condition bring characterized by said denses of onset all the grants of the clusted p A person prespondly healthy I without second the epoloptiform tinck or falls int come. In other cases the atta k benn with in ens ceptal my buch cannot be overcome the an lerus or hip its and after fee day simptoms of mema real and then appear. I comently there is brad rdia due 1 cerclical compression recreded by tachy cardia due t abock used by the in asson of the sultara hnord some by bland. The distances can

be enfect out by tumbar puncture. The prognost is ery nfavorable I the a thor cases the mort hit a 3 per cent but those re-ported by others 1 higher The youngest p tient in the author series was 9 years of ge ind th akiest so are W I Ber

M rtys., H I The Operative Treatment of Septic Menineltis Lears o t criv ast

I p to the time of Jenkin piper in to so the occi sful operati trentment of septic meningitis complication 1 and supportation OCCUPING the condition as generally regarded unes table fatal I the a thor opinion, Jenkins ork is of gre t importance. Successful drainage of the ra fected area - the menunges is no more impossible thin the naccessful operation treatment of peri tonitis. The main difficulty is the early diagnosis and localization of beginning meningities for successful operative treatment this must be done be fore the appearance fithe I saxal imptoms od sums of meningstra Drossumess occupital head sche auchal (enderness alight medht moderat temperature comparatively alon pulse becare of papellardens, and marked rerebrospensi fluid he ges re hurscieratic of cut ran infection. In contrast t these or the symptoms of infection over the tempero sphenoidal lobe spreading through the roof of the mukille cur viz urit bibty vague head ingher tem

perature ith proportionatel rapid polic phot

phobia, and but sight elteration in the cerebro-

spansi fluid
The author agrees w th Jenkins that the translabyminther route is the best for dramage f the customs position in the case reported he dishord the customs by a hormostal measor through the below the lateral must. This was demonst me there was no agree of the translation of the customs of the characteristic symptoms and agris of customs in fection were present. The patient made as factors recorn.

Walehs, F. M. R. A Case of Secondary Carcinomatons Indirection of the Pla Arachnoid of the Brain Presenting Exclusively Ocular Symptoms During Life. Membriditic Carcinomatoss. Bril J. Ophib. 9, 3. 3.

Weake reports case of carcacomatous infiltration of the past arctitude so fine that it was not evident to the naked eye and produced only ocular implications and produced only ocular implications. The patient complained of progressive failure of uson in the left by diplona, and beataine. A squant and blundness of the left ey diveloped There was occasional difficult in a sallowing but no na sea or somiting The patient lost weight. The left pupil reacted it accommodation but not I light.

The postmortem examination showed the left abducture serv. It be theckend of opaque. The pia rachinoid covering the ventral surface of the poin of the cranial neview say thickend. This thecken ing showed cubscal cell exercisions. The growth or regarded as a secondary carcinosis from primary adeocercinoma in the alimentary tract back was not found. When W server M.D.

Polenovski, M., and Dubot E. Glyczemia ud. Glycorrinachia (Glyczenia et glycorachie). Press med Par. 9 3, 2713, 60

Normally, the upar content of the cerebrosymal fluid is parallel: the bags content if the blood in experimental hyperfix erus produced by the in section of denalis in lar increase in signs was stoud in the cerebrosymal fluid. Accordingly, it prears that there is an ossociar gar equilibrium bet cent the blood and the cerebrosymal fluid. As this was found in cives I dishetts but not in meaning an inflammatori processes, it may be of aliae in the diagnosis of diseases of the nervous ystem and meninges.

Foley F E B Alternations in the Currents and Absorption of Cerebrospinal Finis Following Salt Administration (rek targ 93 587

The pressur of the cerebrospanal final and the bulk of the brain can be reduced by the administration of hipertonic sol turn intra-enously or by the angestion of sait. The diministron of brain Nime does not wholly account for the lowering of the fluid pressure as the latter has been found to be due to distribution in the fluid barding and fluid

producing mechanisms associated with marked alteration in the normal currents of fluid in the ventric ular system and cerebrospinal spaces

In a reckey of the normal anatomy and physiology the author emphasizes the fact that the choroad pleames are really extra-entircular structures as they consist of masses of fine convoluted vessels lung outside the continuous layer of ejendy mal epithelium which thus becomes invaginated over them and excludes them from the venticular cavious proper ery much as the peritonical covering excludes the intestimes from the pentionical cavity

The extraventreular fund spaces or subarachined space is made up of the irregular crevices formed by the irregularities of the brain surface and the space intervening between the brain and the skull fisque is sheet by a constitution membershellad membrane, the pia, on the side of the brain, and the arachinoid on the side of the skull.

The main portion of the cerebrospinal fluid is a product of the choroid pietus. In the subarachnoid spare there is a second water of wapply from the permanent spaces surrounding the vessels of the brain substance. U der normal circumstances the flow is from brain substance t subarachnoid space.

From the substractioned space the fluid is absorbed int the dural situates along the arctionad with and along the sheaths of the craimal and spinal perves, stream which finally ent is true lymphatic channels.

After the administration of salt imvestigations are made with regard to the olume of fluid ab sorbed from the substanchand space and ventroles, or the entiries above the crompanying pressure change, and the gross a discretionary substitution of material precruitated from foreigns of tion supplied to the substanchand space or entirely. The substanchand space or entirely materials are discretized from the substanchand space or entirely materials and substance either materials of the substanchand space or entirely entirely entirely of the substanchand space or entirely entire

The experiment showed that sail administration establishes new ratio het een cerebroganal fluid production and absorption pressures resulting in decreased tenson of the fluid in the subsrachnoid space and entireles of the brain

The diministration of salt indices the following changes in the mechanim of fluid absorption (1) intra entreular biooption through the chorood pierus and epondy ins. (1) biooption by the capitalizate of the brain mibitance is the revised of the flow of fluid in the pervisacional maintain (1) an increased rate of biooption along the direct absorption and (a) direct absorption int the essels which the erric the substractional interest in the capital pervisacion into the essels which the erric the substractional stage.

The diministration of salt causes alterations in the gross currents of the fined which are uncident to the changes in the mechanism of cerebrospinal fund beorption described. Chief among these alterations in the currents of the fluid is reversal of the flow in the squeduct and cutricular system.

MORRIS II KARY M D

Bordani, L. Roentgen Treatment in Rebellions Trigentinal Neuralgia (Le roentgenterapa nelle neuralge mbelli del trigenina) L'Atmosferapa 9 2, 11, 18

The author treated eight cases of rebellions trigermmal neuralgas with the \ rays and in air obtained a cure. In only one case was the result neg

ative.

Roentgen treatment acts by freeing the nerve from the infiltrations compressing it and stimulating the circulation of the blood by producing a hy-

peremis.

In the opinion of some authors, there is a direct action upon the nerve itself, but Bordoni believes

action upon the herve fiser, but normal behaves this a doubtful because of the resistance of nerve tasmo to the X-ray When the curstive effect of the X-ray as shelt.

it is probable that the condition is interstitial neuritis or due to permental fibrous.

If roentgenotherapy is not successful its use does

to reentgenetherapy is not successful its use not not contra indicat surgical or ther treatment W. A. Benneux

PERIPHERAL NERVES

Saite, M. Regeneration of the Peripheral Nervas in Adults (Zar Frage der Regeneration der peripheres Nervan des etwachsens Menschen) Art di Sevent Leit d. Hener Univ. on 2018.

The author reports the results of histologic investigations made on a series of nerve excitness due to guishot injuries. Some of the sections were stained with and forthern light green according to the technique of Alzheimer and others by the method of Belechiowite.

I the constricting fibers of Buesper fibe granules were found which militrated the fibers long rudually. From these sardophile granules filamentors format most extended which were surrounded by abeath derived from the plasms of the cells. The Buespier constricting fibers are regarded as derivatives of the sheath only to Chemical ruther field and surrounded by a first construction of the construction of the cells and the cells are cells and the cells are cells and the cells and the cells are cells are cells are cells are cells and the cells are ce

form fibris
It is unpossible to say definitely whether the new saw cylinder areas from these formations directly or whether the latter meets' from the servant servant for its construction. No ne today demos the spectrum of the fibers from the center but it is cream that the meets from the center but it is cream that the servant has the production of the servant has been also servant from the se

the aboath cells of Schwann

In addition to the accolophile grantiles, there are also benophiles which, according it their behavior toward different dyes, must be designated as spool grantiles. It is possible that these are the pretentianary stage of medilla formation. If that case, the Bocagner constricting fibers—ould also take part in the formation of the medillary absents.

Mostemwacz (Z)

STMPATHETIC HEDVEN

ening, F. The Trephic Function of the Sympathetic Nerves (Des tropinche Funktion der sympathischen Nerven). Alse Erchische 921, 2,

Browning states that the trophic disturbances for lowing a perve injury are due t irritation exerted by the resultion neurona which acts on the sympathetic fibers coursing with the spinal perves After operative removal of the neurosna the troobse insures heal in a very short time. The same result m achieved by interrupting the conduction of the irritation by peri-arterial sympathectomy Bruenme recently observed case m which, following the operation, there was lowering of the tope of the sympathetic nervous sy tem not only peripherally from the sit of the operation, but also in the regions lying central to t As a result of the interruption of the main conduction of the irritation in the symnathetic nerv the tone as lowered in the entire extremity

According to Leriche the cause of vacuation traphod distribunces is the formation of small sent-mata in the sympathetic serves fibers assular to those which appear occusionally after mymes of the lower extremities thout bijury of the larger nerve stems. It is possible that the necroscalar repeatedly found in the appendix are the cause of all the symptoms and that summar mrintion groung rate to the formation of postoperature ulcars is produced in the sympathetic nerve by operatur cactaries in the stom ach or intestine. Section of the sympathetic nerve leads to hypertophy and the latter condition often

results also from neurofibromatous Bruening summarises as follows

An abnormal morease in the tope of the sympathetic nerve leads to degeneration of times access in the sense of regeneration of times and elimination or an externity reduction leads to hypertrophy. Brassan (2)

Montgomery M L. The Effect of the Ablation of the Superior Osevical Sympathetic Ganglia upon the Continuance of Lif Endocroslogy 9 3, 74, 74

In his investigations the author used three types of animals, namely rats, rabbits, and cair. The rats ers of young, bealthy stock, especially selected. The rabbits and cair wared considerably in age. The operature one was done during the mostles of

F brusy and March, or After supposite of the upper portion of the vago sympathetic chain the sympathetic was carefully separated from the pain this cephale direction must the separated from the dynamic paraganglion. In effecting the separation commenced findingly was experienced in the case as in these separated from the case as in these separated in the rate than association is less intimate and in rabbility the bodies are distinctly separated

REMEMBER OF EXPERIMENTS										
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Rath	- 04	1 ===	-	Company on seed deep lane speed regard deep	Passing					

or feeced wh to melcane that they were rapid part

41

After the separation had been effected the dissection was carried farther exphalad until the upper sympathetic roots ere found. These fibers were then carefully pulled loose from their cephalic teachments, the sympathetic nerve as carefully sectioned about om below the ganghon and the ganghon TERROTES!

After the operation the animals ere permitted t he her period of the weeks to to months. They are then killed and examined Especial ttention was given to the hings, and to an examination with the buscular microscope of the region of operation

to determine whether any ranghoule tissue remained The carotid artery and vagus nerve were then picked up and sectioned well below the region of the vagus gangion Direction of these structures, together with the surrounding connective times was carefully carried to the base of the cranium, from which all connective throse was loosened. The caroud and vagus were cut as they entered the cranium, the tissue being then removed and fixed in 10 per cent formed Microscopic examination was made of all the animals reported except one. This showed complete ablation of the ganglia from seven rats, four cats, and three rabbits, all of which survived. With the exception of Cats 102 and 5 and Rabbit 1 the lungs of all of these animals were normal

The fact that these animals survived complete removal of the ganglia argues against the conclusio that these bodies have an endocrine function essen-

tud to the continuence of his

The embry clorical development of the superior cervical as monthetic gazzalia does not seem to set them apart from the rest of the sympathetic system as organs which might possibly have an obscure endo-CARL R STEINER M D crue function

ening, F. Anglospann in the Pathogenesis of Vasomotor Trophic Asurosea: Further Ex-periences with Perf-Arterial Sympathectomy (Der Anglospannes in der Pathogeness der vaso-motorisch tropiches. Neurosea. Veriers Erfa-teriorische Veriers. Bruening, F motorisch tropischen Neuroson Neitere Erfah rungen mit der penartenellen Sympathektomie) Deutsche med Wehnsche o 2, zivm. 17 It is not yet known how far upward the vaso-

motor trophic neuroses of angio-pasm extend noth ing has yet been proved an e the transitory contra tion of the radial artery and the arterioles and capillaries Bruening found from operations that the angrospasm in the arm extends high up at least

t the union of the brachial and azillary arteries. If eports three cases of his own, in which opera tion was performed

Care ? This was case of a borderline condition between Ray naud's ducase, scieroderma, and scroparesthesis of the right hand. The patient was a woman 47 years old Operation relieved the pain and improved the trophoneurous symptoms so that the patient was ble to resume handscraft work

Care 2 This was a case of scleroderms in olving both hands of a noman 57 years old Operation relieved the puln and improved the trophoneurotic symptoms, so that the patient could nite gain Care : In this case there was beginning tropho-

neurotic garagrens in the toes of both feet, partic ularly the left foot, a th spastic paraparena due to transverse inflammation f the spanal cord f llos ing inherculous mondylitis. The patient was a man years old Operation brought retrogressio of the trophoneurotic disturbances, especially the gan Frene

In all three cases, as also in one other case of Rayna de discuse eported by Knemmell and Lotinch, operation abouted the brachial or femoral artery to be nusually narrow and the pen arterial sympathectomy resulted in cure or improvement I the author's opinion, the extraordinarily small caliber of the main artery is not congenital vas cular anomaly but due to a contraction (sprism) of the essel, which in the diseases under discussion extends to the appermost portion of the main artery of the extremity. As the removal if the pen artic ular as monthetic perv plexus all cause this sousm to dasppear after preliminary increase in intensity we may look upon I as the result of irritation in the sympathetic nervous) tem. The angiospasm in Rayns d disease, however cannot be considered the disease taclf it is only to most important symptom, but is removal in y bring bout great in provement and possible cure. The basic disease is an abnormal increase in the tomis of the sympathetic persons system

W th regard t the indications for ampathectomy the author makes the following statements

Success may be expected f om the operation in all cases of vasomotor trophic neu oses accompanied by angiospastic conditions.

A temporary good result may be spaced in

angiographic conditions (vascular crises) in the prescientic stage of arteriosclerotic gragrens and intermittent claudication

3 The operation is purhaps relatively indicated in gangrenous frostbit and endarteritic gangreno and their sequele mannuch as the postoperative

hyperamia favors nutrition

A When there is trophic dumage to the tissues following nerve injuries: it is indicated if it is mapossible it allay the unitation of the sympathetic nervous system by other operating necessures such

as neurolysis, nerve resection, etc.

3. It is contra indicated in aderotic aid diabetic gangrene.

I the three cases operated upon by the author cure was obtained in the first and third, and in the second, in which severe secondary classifes had at ready appeared, there was marked improvement Particularly remarkable was the prompt consistion

of the pain in the first case.

The results of operation clearly demonstrate that
the factor responsible for the visiomotor tropiae disturbance is less a deficiency in new function than

an increased irritability of the nervous states. The operation must be performed as high as possible. In visionosis trophic distributes following jupy in the book the done above the state of injury. The artery must be "ell addited for about 5 cm, and the state of the director of which is the state of th

Florescu, A Observations on Case of Pari-Arterial Sympathectomy (Funge Schrachtunges arber enors Fall peruarteneller Sympathectomia) C1 jul med 9 for 179

In the case reported, case of endartents obliter and its gangrees of the foot, the femous array appeared on exposure as a hard, pulseless cord. For arterial is mpathectomy as done seconding to the method of Lericke, but the gaspress progressed. When the thigh was ampotated in its apper third at days after the first overation, so eye spuring

harmorrhage occurred from the femoral arrierse. For the treatment I to herculosis of the boses and joints the athor suggests the production of an active hyperamiss of the affected puts by post and symptotectomy some high totals, and heliotheriny supplemented by press hyperamiss induced by Bers method 5 ses (25 May CO).

SURGERY OF THE ABDOMEN

ARDOMINAL WALL AND PERITOREUM

Ranki, E. The Physiology and Pathology of the Peritoneum (Urber Physiologic und Pathologic des Penicorum) | Il zes seed II hazeler 9 2, 100, 1479, 547

The autho no longer gives lipections of nuclear said to increase the hactennial power of the pertitioner as suggested by on Mixtube. For the prevention of postoperative adhesions he druse gentleness at operation workshop of injury to the serous careful pertinniation effective control of bleeding, and stimulation of persisting a stimulation of persisting a serous careful pertinniation of persisting a serous distribution of the persisting and the verminorm persisting and the patients of the serous careful promitted may be stimulated to the persisting and the patients of the serous of the persisting and the patients of the serous of the persisting and the persisting and the persisting and the persisting and the persistence of th

Of the greatest importance in the management of peritonist is operation at the earliest possible moment I many cases the establishment of metatical fatist is beneficial. The use of tampon has been bundowed Dimmage t bes re-merched to the course of the co

Costain, W. A. Lymphaticostomy in Peritonitis, Surg. Gases. & Obst. p. 3, xxxvi, 365

Treatment of septic and perulent peritorate by drawings of the thorace lymph of in the nock is apparently remainer. The utbox first produced in apparently remainer. The subset first produced in apparent subset of the perulent sub

The dimage done the thorness duct by the oper tion was overcome by the establishment of collat

eral flow of lymph

Lippersecutation demonstrated that in perticution fatal absorption occurs through the thorace duct It not only proved the fact bout it disproved at fatal boroption through the subpersioned capillaines or through the dispersioned capillaines or through the displangmant c || imphatus to the ain terifor mechanismal || imphatus and the right || imphatus duct it those of, moreover perhaps the most extraordinary fact of all, that when a fatal absorption of the contraction of the contractio

tion is overcome the pentioneal ca ity is capable of looking after such a formidable structure as a necrotic appendix

In the dogs operated upon by the method described the pur remaining in the perstoneal cavity disappeared without abboundard desinage and without apparent pocketing. The manner in which this was affected in a matter of conecture.

OSCAR E NADEAU MD

GASTRO-INTESTIMAL TRACT

Kopeloff N I th Stomach a Focus of Infection?

Med Press 9 3, h cxv 54

Kopelod tates that the stomach should not be regarded as possible focus I unfection. In his restingtion, repeated analyses by the Rebfuss method in the same case yielded different curves, and there was little constancy in the bacterial species. He found that there is no correlation be t een the degree of audity and the species o numbers I bacteria found in the absence of gastric lessons, the most important factor influencing the bacterial content. I the stomach is sailowed salves. The bacterial content if the food inpetited is also of importance.

Bennstt, T. 1. The Modification of Gastric F. ne tion by Means of Drugs. Bril M. J. 9.3. 366

By care I experimental work on normal persons Bennett found that only a very insisted number I drugs evert definite action on gesting function. This is in direct contrast to the enormous number I drugs and remedies which have been used in gasting direct on the contrast of them has not been shown a id modern text books. I pharm cology costain (see references to drugs which will modify gust as secretion. It has been only occuly that experimental work has cleared up many of the errors and traditional behelfs of the extrest waters.

Bennett found that atropine subpate diminishes rastice secretion and is most effective when given by mostly, well district with water. When given hypodermically its action is not so constant or effect a Atropine also delay gastric implying and prevents refere gastric spasm. Its local effect on the gastric mucors is as defin to as its action on the gastric mucors is as defin to as its action on

the conjunctive

Theresis gastric secretion pilocarpane as used in the author experimental work, but is cition was inconstant. Moreover, it produced salvation and the salva, when anallowed, had a diluting effect on the atomach contents safficient to reduce the acidity below its pormal farmer.

The drugs fireting guatne secretion after its e olution are those which pentralize and secretion and those replacing defended of h deschloric aced. The effect I the alkalies are markedly in derected by the tupe of their design training. If hen andium birarium to us in on before the previous of food it is rapadly neutralized and iter the me ! there is an cital increase i the secretion i h drothioric and

When sodi in the arbinest in general feer a meal th and abreads see ted is full ment beed and there is period of reutrality lasting nearly an bour Subsequentl Nonever ther a hour Subsequentl boneser ther a pelituse on the goatric acadity to usual led Hernett 6 observation to d him to conclude the tendram be curbonat ha tendence t t the gratific marre to pure and a return of that the effect more the on terbulance t newt light chose. M grow um side and be so the a long t h

f len disorbing effect this wham he bon to and much great newl but glower. The proper time t go there draws a too of h per whit it aff the prestion of food sedam I carbon t as of most be a be a port prof some text three a con of mu as act stood a digitile of

no hydrochloric id

I care of describing of h drocklyng and large quantit of the drug must be gra-Small doses such there much presented hamor than parchie eff et. Il tier do not percase the bidro

chloric and

Among the drugs fleeting gustric motifity tropuse was found to delay gust it employing and t present or relat gast so justs. Strichause go en in en mall doces increases ga trac peristalds and causes the tomach to empty more apedly thus normally. When or en in larger doves, brusever it first produces lolent t ristalia w es ad poloro empt ng Adrenabe w man but let found to h so two on the stemach whatever whether m en 1 I far doses by snowth or hips-8 NA MD denovalh

Matheres, A. R., and Arames S. F. Observations on the ! Sect of Histantine on Human Generic Lecretion Level 9 1 Ct 45

The athor angle rigiobers tions on the ac tion of small doves of hi tamine on the grattle se cretion of t el bountal p tenta also er normal so far as gastric compliants ere concerned. The one hour test mend employed to comput the constant test nature of the g tra response t constant test meal (tes and toast) in the instantine response The fatting stomache re fi d emptied of their overnight secretions by means of Rehfma t be Cen not t ty minutes | ter epiration of the enture etomacia cont its in again performed t de termine the rat and a ture I the resting secregives hypodicrenically and after this the stomach content or completely apperated at a manual intervals beamming a main tes after the injection,

matel the secretion had either to will are a terrord to sorral. The preput tron of histamine used was ergamme the phospie to This is desolved in a tiet so that I care of the what in contained it mem at the salt. I resh preparations are used to goard agu i determination. The go tra content obtained ereme used and amused for total send fire h drochkers and, pepus, much and hale

The amount of guerra have seen ted time the tail cidit and the free hydrochloric scal Il showed an increase after the dimensir tion of he t mine This leg n this liters marates ad reache I a maximum lithin a half bour. The delive from the missimum w more gradual th a the the the and total bridge home and comes ar parallel in their course. The maximum acidity

a and resemble from 15 t

The person corn followed at serreum adactility currently beautiful its head management in horier time than rither the outty or the rate of secteding

Ver w found in bundance lief e the inner mile poor (fluggy bytespecial test seem find to meet and It is resulted that the been, or catraliance effect of the mucus (in important factor in the ges to be of the aculity. Ble is a found infrequently If I muse has a vasculating acting and shortl after it aspection produces an interpe forbing of the fac It has no other propent action, however as

at cautes no other motion from these observation the there conclude that bestamer has detine action in exciting the secre tion of gratric just said that a many be employed for the purpose a ther pewtic gent or t deter mine the stat of the g stry, secretory function B N WADE NO

Explifie of the blomath (b) juice Pinard, \(EM Ger Brandle Med 0 1 m 1%

Suphil of the stomach is frequently overlooked The ather san sure cases in little over a prar (gatomerally the levon is usually diffuse gastering but there can be localized gumma surrounded by more or less diffuse infiltration. The edges of the after 1 the marcas and sales tosa are thick and hard ad it been covered the this rise. met rul. The last son become healed or per forat and et se dhesions t neighboring organs or cause polione obstruction or hou glass stomach

by circ trict I contraction I the us bor openion in philatic uker is the most common toma h ulcer but the least often ever mand A period of gartine distorbane as followed be bemorife to vomiting prin in the fuck ad chest great loss of weight aleternoration of the graeral bealth and night pams. Oft the hamorrhage 37 PM #

Four forms of gustne pphilis are distinguished bescalls () th t th tumor () that a six chronic eastralis, (s) that the prioric obstruction, and (s) that a the boar glass toomich

ARLEGEO BOARD

Schur II.: The Origin of "Hunger Pains and Their Significance in the Diagnosis of Ulcer (Die Genee der "Hungerehmerzen und ihre Bedeutung ferr die Ulcusingnoss) Wirs k! Welnicht to 2. 1224 684

Schur demes the existence f so called hyper acadity neuroses. Hyperaculty pana, he beheves, are uterprained by pana, he beheves, are uterprained by pana, he beheves, are uterprained by a panal their came in the minimum of the panal their came in the manales to observe increasement in the parallel panales are contractions increased in the manales surrounding the influence of the panales are contraction. The hydrochloric acid in the stomach the high level of gastine acidity. In amming up, Schim states that issuager pana demonstrat the localization of an inflammatory affection in the region of the pysforu and when they are periodical provents that sidection is an uter.

Hont, E. L. Laionyoma of the Stomach, with th Report of a Care. B in M & S J 9 3 circus, 149

According to Millory the term keomytona," means a kolvy growing timos made up of smooth meade fibers. When mitotic figures, which individually from this present, the timos is a keomyosarcons. In 9 g, in an exhaustive search of the intersture, Nassetti from the reports of 1 g myonatous tumos of the Simon Of this more than the state of 1 g myonatous timos of the state of 1 g myonatous timos constituted best than cos-thair.

In a review of the hterature since one Hunt found only nine cases. These he summarizes briefly. His own case was that of a man to years of age who as admitted to the housetal complaining of heart burn of two months duration and with a history of an attack of humatemests and meleus eight months previously and an attack of acute indigestion three menths previously Examination revealed severe secondary amenia. Blood was found in the stools The X-ray showed an irregular duodenal cap and a persestent vacuole on the duodenal border. Tutransfusions were given, and a diagnosis of disodenal ulter as trade. At operation, a smooth mass, the sles of a lemon, was found just above the pylorus This extended under the liver and was adherent to the first part of the duodenum. A pylorectomy followed by posterior gastrojejunostomy was done Convalencence was rapid. After the operation the Y ray demonstrated a functional stoms, but ex ammation eleven months later revealed a rounded tumor in the epigastrium the size of an egg. This as interpreted as recurrence, and second opera tion as advised but was refused by the patient

In general, these tumors are characterized by corcumerabed growth of smooth muscle cells, the norman in any detecting their relations and they produced to the second of the second of the the meroes. Their most common location is the greater curvature or mair the pilocus, but they may occur if any point in the stomach. The in-

cidence of the subserous and submucous types in about the same, and either may be seanle or pedimculated. In the submucous type particularly secondary charges such as hemocrasge, niceration, and craft formation, are common.

The gross specimen in the uthor's case consisted of an owned mass, the shape of a strens, which was addresent to the pylorus and the first part of the duodenum, extended into the guartocols concentrated and projected into the luxue of the duodenum by a rounded nodule the central portions of when successful and the central portion of when we have a constructed by this accounting for the penalest vacuols shown by the X-ray I is consistent of the construction of th

lesom voma The author concedes that the clinical diagnosis of lesomyoms f the tomach is seldom possible, but he believes that the condition should be recognised m certain percentage of cases. In a table he gives the elater freemency of the various symptoms which may be produced by mechanical, ulcerative, or tonic causes. Twelve per cent of these tumors are silent and are recognized only at autopsy Forty five per ent are palpable. Pain related to mesh is present in 50 per cent of the cases. In 22 per cent there is dyspensis, and in as per cent evidences of hemotrham and secondary attenua are noted. The \ ray may show an extrusion defect, an hoor glass construction, interference with peristakes, incorura, cardiospasm or hyperperiataliss with an eight-hour rendue

In eight of the tem cases reviewed by the author complet ecovery resulted I one, perforation occurred, and in the author's case a recurrence developed. Early operation offers an excellent prospect of cure. If operation is delayed there is danger of hermorrhage perforation, or recurrence

DEPOS II KELLY M D

Ramond F., and Zizina, P. A Scarch for Autolytic Products Applied to the Larly Disposes of Gestric Cancer (Application an chapsonic précote de caser granque de la recherche des produits molytopes). Bell et mém Sec méd d hép de Per. 9 3, xivu, 96

Hastologic examination of cancerous tissee shows that the neoplatic cell has easily training it tality quackly undergoing studyine dumlergration. The ordinary profession of total products are to be found as the blood and urine. Secretal investigations in demonstrated that such products are principally amines. The uthors have proved that they also include propripation such form the stage be able include propripation such form the stage be formed and amine. The authors cought for these populations in the blood, especially the serious serious many contractions.

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In tabular form are given the findings in the cases of non cancerous persons and seventren cancerous patients. In the cases of cancer all the introcenous substances in the blood and urine were increased, a fact indicating an increase of the hitrogen metabo lism due chiefly, the uthors believe, to the a tolytic process. This process occurs also in cases of rapid entenation acidous, and ther conditions, but whenever cancer as suspected t will be easy to elum inute the other conditions. On the bases f such and ings in three doubtful cases, the thora were able to diagnosis of matric cancer which was confirmed toperation W A Brown

Haden, R. L. and Orr T G. Chemical Changes in the Blood of the Dog After Pylone Obstruc tion J E per Med any rereal, 177

there report chemical studies of the blood and tirme if ur dogs following pyloric obstruction These confirm the observation made by other workers that there as a fall in the chlorides and trac in the carbon-chouds combining power of the plasma. There is also a marked use in the non protein nitrogen of the blood, consisting mainly if area natrogen and undetermined introcen

The fall in chlorides is not due to the loss of chlorides in the gustric paice the chlorine probably becomes bound in the process of protein destruc-

LIGHT There is close relation between the fall in chlondes and the protein destruction

A study I tetany should include the protein metabolism as well as that of the morganic salts,

since the nomible that tetany is due to protein aphit products rather than to alkalous The chemical changes following pylonic obstruction are sesentially the same as those following high

intestinal obstruction SAMPLE KARN M D finden, R. L. and Orr T. G. Chemical Chang in the Blood of the Dog After Intestinal Obstruction J Esper Med 0 3 mm u, pos

The authors report tudy of the non proton nitrogen, urea nitrogen, urac acad, creatinine aminoacid nitrogen, sugar and chlorides of the blood, and

the carbon-change combining power of the plasma normal dogs and those which had had some type

of intestmal obstruction Lurstian of the duodenum history of the duo denum with gastro enterestomy and legation of the upper half of the sleam are followed by a fall in the res in the non-protein introgen and errea natrogen of the blood, and rese in the carbon dioxide combining power of the plasma. The unc and, creatment, muse and mirrogen, and super show no segminant changes. The fundamental change m fall in the chlorides followed by all alone The degree of alkalous depends upon the rat of formation of carbonate the rate of excretion by the Midneys, and the extent of pentralization of the carbonate by acid bother formed during the ist xica. Lion

The full in chloridge is probably due to tillustice of the chlorine son in the course of the interioritation It is inggrated that this use I chloring is protective measure n the part f the body There are indications that high intestinal obstruc-

tion should not be treated by the dministration of alkabes

The ures nitrogen is a good index of the protein destruction Ligation f the ileum at the ilencercal value fol-

lowed by hittle increase in the nitrogen and no change in the chlorides or the carbon dioxide combining power of the pluma

The close similarity of the blood findings in ten tmal obstruction, lober pneumome, and serum dis ease suggests that these different conditions may

have a common chemical bases SAMURI KARE M.D.

Further A. The Typical Forms of Late Observe tion of the Sumil Intestine Following Support tree Appendicities (Ueber die typischen Formen der sack ettragen Appendictisden entstandenes spectaren Dutandarmiles) Gyfgydres, g. xlu 664

The author cells attention t the important part played by the lowest coul of the ileum in the origin of lat obstruction following cute appendicute. In five of seven such cases he found the following typ scalchanges () thickeming of the across and rigidity of the entire intestinal all, () shrinkage of the cor responding mesentery and (3) the presence of hand like pseudologaments. These changes had caused

volvalus and transplation. In every case the author reserted the tauted per tion of intestine and made an austomore between the ileum and transverse colon. A cure resulted in every matance. Fucher believes resection should be done even when the intestine does not abou

necrosas, as otherwase the volvulus ma recur VON LORMATER (Z)

Metalengracht, R. Two New Cases of Structures of the Smell Intestine with Pernicious Aberena (Zwe men hardle on Ducandartestriktures mit permissioner Assesse) Upon f Layer 9 íma

T the ones of intestinal stricture ith permittons anarous which he reported in 920, the author dds tu thers The first was that of a 64 year old woman with three structures of Tuberculous nating who died to elve bours fier the resection, and the other that of man of 3 years with an intentinal pparently of cacatricul nature, stenows. developed after umerous laparotomies

The associated sammia Medicographi regards as discuss picture worthy of study. He believes t should be interpreted as an intersection assumia due to the direct action or the products if bacteria, or to the beorpton by the dilated, inflamed, and in fected segment of intestine of substances which under normal conditions would not pera through

the intestinal mucous membrane

DEAUGT (7) - -- Symonds, C. The Therapeutic Value of Vomiting in Intestinal Obstruction. Precisis ser a t CE, 101

The free administration of funds principally water in suspected intestinal obstruction or acute appendictin a sound practice

After operation, omiting should be encouraged especially in advanced cases, until the rejected mate rul is from from lule When becough a present and ocuting does not

follow the free use of fluids, the stomach should be ashed out every four hours in severe cases and t o

or three times daily in the others

The injured box et will maintain obstruction for from t o to four days During this period the best treatment is the encouragement of vomiting

The reflexes should be allowed to come into opera tion as soon as possible by omitting the pre operative dose of morphiae by performing the operation as quickly as possible and under minimum aniesthems. and by a thholding morphing until the rejected material is free from bile

When free womiting has occurred, the symptoms of toxemus are absent and therefore the prospects of recovery after operation are greatly increased SANCTE KARN M D

Abbott, C. R., and Hunt E. L. Intestinal Obstruc tion by Gall Stones. Bestes If & S J 9 3, clumo, 100

Gall stones escaping into the small intestine perforation of the sail bladder may be large enough to block the progress of the contents of the alimentary canal at the time of their escape or may cause such obstruction. Iter they have become larger from ceretion Obstruction caused by true ferculths is very unusual. The most common site for the arrest of gall stone is the winning

Enterouths may induce sudden cute obstruction. or I too mall for this inflammation, pleerstoo, and

perforation If large stone is present, the intestinal ils boy become dulated by the accumulation of intestinal contents t the point of obstruction. This is followed by hypertrophy th impairment of the circulation which causes inflammation and alcera tion expecially in the miscous membrane

The clinical pacture is that of acut or chrome obstruction of the small intestine. Stones that re ch

the colon acklom cause obstruction A b num meal examination should not be at

tempted there is any question of cute obstruction The pith is are diamed in years and usually antory of previous gall bladder disease and tyrecal indigestion

I the cute obstructs stage the onset is more or kee rodden and characterized by omitting which be omes more frequent and by the development of colicly pain in the umbilical region. The onset of the toxic stape aries coording t the size f the stone is rate of tra 1 and the completeness and the mt of the obstruction. The higher the obstruction the more solent the symptoms. Other symp-

toms are continuous nem and constitution. Noise flatms heard in the small box el early helps to differ entlate obstructive lieus from the paralytic type I ruble coals ha e a samular sigmificance

In cases of high intestinal obstruction operation should be done early before distention is pronounced A cathartic should be given. The in testine should be incised longitudinally opposite its memoters: attachment and the calculus removed Proximal enterostomy with dramage is indicated when there is marked t vermle or overdistention The prognosis is always gra e

The complete histories of four cases are given, together with the findings of chemical analyses of C F AYDRENS M D the calculi

Tinkham II C. Chronic Arteriometrateric Obetruction of the Duodenum. Besten 11 & 5 J 9 3, demmu, 197

Arteriomesenteric obstruction is caused by an ab normal pressure the d odenum by the mesentery and the superior mesenteric artery

A potential factor causing this betruction is an abnormal position of the small intestine which not only produces an bnormal tension on the mea enters, but also changes the direction of the pull making t more pently parallel with the vertebral column

As the intestine is freely movable it is evident that the degree of obstruction will any with the position of the body, and t intervals may be re beved altogether. The obstruction is also as anocated with some debulitating or enervating condition, and is often found with other definite pathologic conditions

This disease has no characteristic symptoms Most of the patients ar mor or less neutrasthenic. and many ha e some other chronic disease. In the more severe cases the symptoms are elerred defimitely to the stomach and are very similar to those of pulone obstruction or chronic dilatation of the tomach Definite symptoms of toxamia and maltrition are presented \ ray examinations are

not materially helpful in the diagnosis The treatment consists of measures to improve

the general utrition and posture to relieve the ob-struction. I a large percentage of cases this is all that is needed. Medical management abould be tried before surgery Duodenojejunostomy seems t be the most locical

operation but three of the utbor cases were enturely relieved by posterior gastro-enterostomy

The histories of thirteen patients with this condition are gr en C F A DELES M D

Carrie, A., and Keller J The Duagnosis of Discdenal Ulcer by Means of Rapedly Made Serves of Roentgenograms (Le diagnosis des alcères duodénaux par la méthode des radiographies rapides en ecus). Preux més. Par xxxx, 30

Cole method of making a rapid series of roent genograms has been adopted for the diagnosis of duodenal ukera, gastric leasons, and gall stones forest rapidity a not desired. I gatteen plans are made in from five to fifteen manets. The exposure must be rapid: guard against respiratory or pertellate morements. The patient to be thus eamined is placed in a resimbent position with a nillow under the chest.

Bulb deformities may be caused by three conchinons, separately or combined, in keepers of the mucous and the walls, leasons of per duodenties, and spasms. The thorn below that all bulb deformaties may be reduced to three fundamental types the nache the increars and bulbar retraction.

The shadow cast by the mole is just outside the normal limits of the bulb and is characterized by the irregularity of its borders and its acute angles. It is most often found on the apper border of the bulb

and represents the crater of an ulcer

The incusars, on the ther hand is clear area within the limits of the bulb outline. This is of the forms, the organic incursin, with irregular borders, representing an alcor and the sparmodic incursars, herb larger of deeper and has rounded edges. The latter may border on niche or lie just opposite a pount of inferential.

Bulbar retractions assume the shape of a malitone cross, a coral branch, or tortuous casal. They are difficult t define as they correspond to an incomplete filling of the bulb and are not constant.

In conclusion the other states that the \ ray examination must be completed only a part of the chincal examination Krizoco Series, M.D.

Saups, E. Roentgen Diagnosis in Diseases of the Duodenum (Urber die Roentgeschagnoss der Duodenlarkrankungen) Mai & Germysb d Vad Chu 9 2277 355

This is review of the roestigen symptoms and a document of roestigen technique with special regard to flooroccopy. In forty-one cases in lack positive duodenal flatdings were present it was possible to confirm the N-ray diagnoss by operation in only ten as most of the cases were given medical treatment. The author reports also the reestigen flodings in

five cases in which diagnosis of doodenal diverties much or thout tiker as a made. In a case of carcenosis of the py kers invading the doodenum the bullen dooden was deformed. In a miliar case which had been five from a mytomic until the developme t of a partial liest, there were characteristic changes in the bulls and pyloria streense.

Gaussian (X)

Argett, A. Colloid Carcinoms of V ter Papille
A Clinical and Anatomo-Pathological brody
(Carcnose colloide della papille del Vater con
tributo clorco anatomo patologico)

Elferna
sed 9 1, xxm., 48

The author' case of carcinoma of \ ter' papella was that of a man 59 years old. The carcinoma was attracted at the point of discharge of the common dust not the disoderum and was the saw and form of a small mandam orange. The devoderal mesons and the panetrette tensors we not invol of. The nucleus of the tumor was \text{\text{ter}} peptils. The old-maintain, it especially unusual. Angel has not found another nucleus musual. Angel has not found another nucleus musual. Angel has not demail another nucleus musual. Angel has not demail another nucleus musual in the interest although the populatiny of colified cancer of the bid ducts at district. The case he reports represents on district of the case he reports represents on the case of the case has not been a supported to the case of the case has not been a supported to the case of the case has not been a supported to the case of the case

TV 4 Tanana

Reh, IL: Reentgen Ray Treatment of Extrastre Hoomeal T berculous (Roestrenbelung augelehnter Heocorcaliuberkulore) Zestralii f Chir

In all cases of intestinal tubercaions, whether the process arises in the substronce or subsurcous layer, as attempt should be made to localises in the bear of deep reduction with the reconstructive provided high fever obstinate distributes, and posture blood findings do not indicat the more quackly effective operator procedures. To illustrate the results of deep renetges ray therapy the following case is

cued A 16-1 ext-old woman suffered for eight years with durnhors, mucht sweets, and percous complaints so severs that she contemplated suude. During an operation for retroferator, wide-opend inherculous of the ascending colon creems, and lower thrum was discovered. An ileocarcal resection was next considered, and deep roentgen my therapy—six nitings of ten sumstes duration each, applied over four areas in three months—was given. Since the complaints and districts continued, operation was per-formed. After separation of adhesions, the carrier was found free from ulceration, presenting only thickening of the all I two points. In the ileum were three dense strictures and single calcified tuber culous nodes. Above the strictures the ileum was enturely normal GRAUMAN (Z)

Leasen, II. Resentéen Observations on the F te et I testinal Irrigations ed Different Quantities, Lapecially from the Therapeutic Viewpeint (Roestgroberbackungen schre das Schaftsal er echseles groser Damoapeusungen auter besondere Bernachschagung thempeniacher Guechtpoukte) Fertale d Gel d Kontgrosschles

9 2, 222, 48

Internal nection of lea than 50 cm, especially also price the access syrings, one to reach be only be amplete of the rection, whereas the old the amplete of the rection, whereas these of more than 50 cm are with an impact cater for the lower actions of the large testing and later the major persons. It therefore fostions that shen is a desired to introduce foreg directly not be circulation through the vera hemorrhoidals, time existing the portal circulation in congesting of the liver for example, the drug should be administred as the access syrings. Substances intended to reach more distant. Jugatia of

testmes, such as n tritive and glucose enemata and injections of sodium carbonat should be given in quantities ranging from 5 t 500 c cm In the anthor's experience the additio of common salt is of httle value

Groedel has found that when more than of find is introd ced, it passes the ileocarcal val The possibility of influencing the small intestine medicinally in this way is therefore not to be dis

remarked

On technical grounds t was impossible to follow the fate of suppositones, but t is evident that as the particles of the drug in these are so intimately bound up with fat which the large intestine can not split up such treatment is flittle value

Rogers, R R.; Secondary (Acquired) Megacol n. Olos State M J O L #15, 7

The theories regarding the tiology of Hirsch sprung's disease or megacolou, attribute the condition to numerous factors. The most prominent symptom is chronic obstructio with periods of durrhors Distention of the bdomen, tympeny nd t times fecal messes, may be made out on The stooks are thin namation Pain is uncommo and potts like in consistency and are passed a th

In more than one third of the cases only the wamord loop is affected, but in some the entire colon is The pathologic picture consists if roughmvolved came of the serous coat and obliteration of the tenue and possibly of the longitudinal bands. There may be, therefore, an pparent lengthening of the colon as well as dilation. Mixroacopic examination shows throng inflammation, round cell infiltration,

and thickening of the mucosa

The author reports the case of an infant year of age who had had marked construction and difficulty and pain in defectation since birth. On examination, the bdomen was found distended. The thorax was normal except for rachitic rosary. The anal region was breeted by a thick fibrous raphé. The anal opening was about 1/4 in in diameter and could not be stretched sufficiently for the insertion of the tro of the httle finger. The tools are flat and about the diam ter of lead pencil. At birth the arms had been almost closed

At operation the raphe was divided and as modsphincter as possible was constructed, but the condi-

tion as httle improved

When the child was seen again one month later t had had no stool for one week. The abdomen was markedly distended and there was a large mass filling the right side. The temperature as Vomiting of material with decidedly facial odor occurred. A barrom enems showed the susmoul t be markedly dilated. No barrum entered the rest of the colon

Operation revealed marked enlargement of the colon beginning just above the internal sphincter and extending upward to the hepatic flexure. The

walls of the surmoid were enlarged and definitely thickened, but the white bands were still prese t The sigmoid was emptied into the rectum but nothing further was done. The dministration of mineral oil, oil enemas, and massage were necessary to keep the child farrly comfortable Four months later the uthor began the dministration of atropine to the limit of tolerance. This resulted each time in normal bowel movement. An \-ray examination of the colon show no change since the operation

There are two posmbilities to explain this case either the magneolon had been present since birth and the anal construction was merely coincident to L or the colon was normal t birth and its enlargement was due to the forcing of its contents through the abnormally tight sphincter

WILLIAM I PROSETT M D

Pelvic Mesacolon Colectomy Rahers, M J After Investmention of the Colon into the Rec turn (Megarolon privien colectomic après invagi-nation colorectale) Braxelles sed 9 j m, s8

The anthor reports the resection of dilated pelvic colon by invaginating the portion t be removed into the rectum. After this procedure the distall end of the proximal portion of the box el was sutured to the cuff formed by the invagunation. By this method the ma , duadvantages of an artificial amps are chiminated and the line f intestinal suture is protected. Resection of the invaginated bowel may be performed ery easily through a dilated anal onfice LOVAL E D VIL M D

Alzons, F., and Valenti A. A Case of Develop-mental Alterations f the Coccum and Pencolse Membrane (Sopra un caso di alterazioni di aviluppo del ciaco membrana perirohea) Riforma 0 L XXVII. 40

In the case f patient with pain in the decerral region and chronic constipation it was found in the roentgen ray examination made eight hours after the administratio of a semisolid meal that the small intestine was completely empty and the execum, ascending colon, and the first part of the transverse colon formed a twisted mass in the right The descending portion of the upper quadrant transverse colon first began t distend aix to eight hours later Fifty six bours after the ingestion f the meal the execum and excending colon were u li filled, and after seventy two hours a residu

was still observed The diagnosis made on the basis of the \ ray and clinical findings was ectopus and failure of rotation ! the cucum with adhesions between the cucum and

ascending colon, probably congenital and non inflammator.

At operation, a part of the occum and ascending colon was found wrapped bout by filmy membrane containing numerous vessels disposed parallel with each other and transverse to the great axis of the body Exteriorization of the execum disclosed long mesentery and absence of lateral, laterosuperior medial, and intercolic parieto colic adbesions. The crecum was higher than normal and more medial.

more medial

In the thor' opinion, this was case of nonrotation, non-descent and non-fusion of the recum

/Chr o char

W. A. Barro.

Schmidt E. O. The Treatment of Appendicities with Compilications (far Behandlass der Appendicities int kompikations). Desirie Eicht perdentie int kompikations.

The author classifies as ppendictia with complications of Grade: cases in which the condition begas with infiltration curcumsembed periodifits, or biscess formation as appendictits with complications of Grade; cases with diffuse periodictic or the entropy of the inferior of the inferior of the inferior of the inferior of the inferior.

In the management of the complications of Grade t the nind adherence t any one procedure or method of operation is not practical. Each case must be treated ecording to is indications. In cases in this group and also cases of firesh appendicates, in which there is severe inflammation of the excum, the care of the stump of the appendix as itended by extraordinary difficulties, the carcum tears with almost every statch and the lower slown is invol ed in the inflammatory process (circumstances which may m rise t ilcus) the thor has performed entero anastomous bet cen healthy sleum and the transverse colon eight times up to date (also t ice in diffuse pentonitis) with good results. If the enteronastomous was impossible without enclasgering the healthy belominal cavity a second abdomina in croson was made. This procedure assures the greatest possible protection t the affected organs and favors raped recovers

The cure of duffuse pention to depends in great part on the patient's constitution the method of management (dry institution) fiether irrigationetc) is much less imports. It Subsequent cannot constitute that the patient is a subsequent cannot be a differ four and five months in one case each, the anistonious was no linger in the anistonious was not linger in the lines of the patient in the patient is a superior to the lines of the control of the patient is a particulated.

Jackson, A. B. Carcinours of the Appendix Inch. Surg. 9 L vs 653

Carcinoma of the appendix ill often be overlooked unless carried routine examination is made of all popularies removed. Supprison access on the bliterated, or partirily obliterated, harmless appearing type because it his been shown that one in error, liftly three of these is carcinomations.

In two series, totalling 8,010 appendices, which were examined microscopically by MacCarty and McGrath at the M yo Clinic, forty ere found to be caronomatous. To determine the progress the thor followed these forty cases and ta-ently four which were treated subsequently. The tot I mber of cases found the hiterature with the twenty four here reported as 3,7

Thurty-seven of the stary-four patients observed in the Clime ere traced T had duef from accounts or conduces me or yielded due to the seven and to had deaf from pastoperate a complete them are ell T leaved to the patient years for them are ell T leaved to the years and to make the operation ten fit to ten years and to me to fit eyem? The mahamany as circul in 100 per ceal if the patients traced in only five of the entry-four case was posture ser paid diagnosis made of carcinoma. In four ther cases the know was suspected.

The consequences of failure t recognise the condition and remove the tumor cannot be at ted because it is an set assettled better carrinous of the

large bowel may original in the ppendix

There is bittle agnificance in the climical finitory of these cases. Fully per cent of the patients gave hatory of previous trouble. The disease is seen to was soften in somes as in men. The process should be carefully examined in all patients with a history of persons, trouble in the prenth because man malignant previous may thus be discovered which otherwise matrix to overhooked.

I the I enty four cases a ported by the author the caremona occurred at the tap as twenty one at the base in to, and at the middle in one. The tupor and growth suggests concrutions thin the higher. On transverse section the lumes as seen to be billetrated by solid growth which is homogeneous and fibrous in appearance. When preserved in

formaha, the growth is of an orange color

There is considerable doubt as to the pathology of these transon. Graham has droyled them into t must types, the spherodal cell circumous and the adenocaryonas. I has serie, yi 8 per cent of the cases ere of the spherodal type. Adenocary mosts occurs later in life than the spherodal type and convergoods move closely to the age at hich carry most of must be most of the spherodal type and the control of the spherodal type is not to the spherodal type in the spherodal type rarely invade, the occurs or spreads by merestassas it the shoomast glands.

The mactoecopic protons a that of irregular masses of epithelial cells by pacid, at seed surrounded by heavy fibrous trees. The growth is confised the first the nuceous and athomorous layers the periodisam of the cells in pile and search, but the much state of which, and are greenfully oral or round and with fiver irregularities than any presented by corrounding the cells are not anyther than the protection of the cells are not anyther than the cells are not any the cells are not any the cells are not any than the cells are not any the cells are not any the cells are not any than the cells are not any the c

That chrome inflammation is a factor in the production of carcinoma is evident from study of the specimens. An analogy is the development of gustric.

encer on an ulcer base

The uthor concludes that pre-operative diag nous of curenoms of the appendix a impossible because of the absence of distinguishing climal lagus. The prognosis following early removal of curemoms of the appendix is more favorable than that of malignancy in w other part of the gastro-intestinal tract. There is a definite relationship between chrone inflammation and carcinoma of the appendix. This appendix thould be enamoted carriedly whenever the abdomen in oppied and should be removed if a stall surpsions. The relationship of creal carrinoma it carcinoma of the pipendix has not been rowed.

LIVER, GALL-BLADDER, PANCREAS, AND SPIZEN

Deakin, \ R and Graham, E. A. Functional Liver Tests An Experimental Study Surg Gyare & Olat 9 3 xxxx1, 145

The recent prominence given non surgical desinage of the biliary tract in medical literature has served to emphasize the case with which diodetail intubation may be ecomplished, and this in turn has stimulated a revival of interest in test of he notic function

The most evident function of the liver is its excretion of lake but this is not it sole function. I a seems of twenty five cases the authors dramed the bilary tract by Lyon a technique and then attempted to mai. functional lest by myesting so mgm of phenolistrachlorphthalem intravenously after the flow of the C function of bile had been established and collecting all the layer beginning the succredular two lowers.

The output of phenoitetrachlorphthalem varied greatly even in those cases in which the draining even effected most easily. In one case no phenoitetra chlorphthalem could be demonstrated in the bale

over a period of ten days Later the authors attempted the Lyon Meltzer bilary dramage on normal and on cholecyster tomused dogs, and made benetic functional test on normal dogs and on dogs whose livers had been damaged, as by prolonged chloroform angesthesis Five does ere angesthetized with other and a small stomach tube passed and guided manually into the duodenum through a laparotomy ound. The duo denum was then urregated this 5 per cent mag-nessum sulphate sol tron. In all of the dogs the gall bladder always contained considerable quan tity of bile. In the I them the cyat o duct was clamped find the bile from the other biliary pas sages compared the that of the gall bladder. In every case the bile from the gall-bladder was of a darker color and more visced than that of the benatic

In four dogs the phenolitrichlorphithdem in rected stars crossly as subscripently recovered in the dandenum in from ten to fifteen manets. When the cystic doct as left patient, the dy could be demonstrated in the gail bladder ble. When the demonstrated in the gail bladder ble when the bed discounted to the production of the top of the discounted by the rectus are named to those of tained by the merulgation.

At no time, however did the sphincter remain relaxed for a tw hour period. Therefore, in dogs, a hepatic functional test by a method similar to that med in clinical cases is impossible.

The authors summarize their conclusions as fol

- Phenoltetrachlorphthalem is not satisfactory for a hepatic functional test based on the quantitative estimation of its output in the bile.
- 3 There are too many factors tending to prevent the complete collection of liver fule by the duodenal tube t warrant the use of the latter in such procedure
- 3 The so called B fraction in non surgical biliary drainage is in part at least derived by gravity from the gall bladder 4 U der ether and chloretone amenthesis the
- 4. U der etner and chioretone anesthena the sphincter of Oddi will relax, but with this relaxation the gall bladder does not contract sufficiently t empty tself.
- 5 The intermittent flow of bale from the common duct is probably the result of an increase in mitra shdommal pressure during respiratory movements, and mall probability as Harra and others have concluded, the gall bladder is empted of its contents by the pressure it adjustent districted and compared organs during dispetion and by the milliang action of the disordant permitting Common E. Britary M.D.

Hartmann-Kappel Twenty Tw Cases of Amerbic Abscess of the Liver Their Treatment with Emerine (long deux observations dabels in bens du fous, leur truitement par I fametine) Bull of men See de city de Far o S. Mix. 6

Hartmann-Keppel treated t enty two cases of america abacem of the liver in Macedonia, Syria. and Palestme Most of the subjects were soldiers Fifteen were between 15 and 4 years of ge Two patients were women. Eleven had dysentery six had had dysentery previously and five had had no intestinal disturbances. A search for the parasite was made in only nine cases. The amorbie were found in the stools in every case but were discov ered in the liver pas in only two. In four cases a liver bacesa had been present previously but had been cured. In seventeen cases there was only angle aboves, but in four there were in and in one, five The site of the abscess was the right lobe in sixteen cases, and the left lobe in mr. In three cases there were abscesses elsewhere bendes the hver The symptoms were classical One patient died few hours after entering the

one patient ord few hours after entering the hospital Of thet enty one thers, its were treated by simple surgical incision without any medical treatment. Both recovered but suffered a recurrence. They ere them cared with emetine. In eliverouses given medical treatment (eneutine alone or emetine combined with amonic or their drups) there were ten recoveries in eight the abscrass was resorbed and in two it was spontaneously exact and in fact as the first are retained to consiste of size.

gical opening of the abscess followed by medical treatment. These were all very severe cases and only two f the patients recovered without compli cations T died of the condition, one died later of pneumonia, and the other recovered after thora cotomy

In one case medical treatment was found entirely ineffications. The patient as then operated upon and recovered. Of the twenty one patients treated. three ched. The mortality was therefore 5 per cent, figure much below that previous to the thera

peutic use of emetine

Therefore tis pparent that in large number of cases medical treatment alone may bring bout recovery. Many surgeous have been of the opinion that emetine should be used only as an drunct t operation

Hartmana Keppel ia ors ide opening of the

baces instead of ample puncture

For good results, the medical treatment must be energetic and prolonged. After giving small doses in the beginning, the author reached a dosage of 5 gr in ta mty to t enty five days Arsenicals etc grien a th the emetine Such high douge causes some reaction but a serious nephritis

developed in only one case

In the series of twenty t cases reviewed there Therefore the recoverses ere mine recurrences cannot be considered as definite as no patient has been followed more than to yours. In reality recurrences are hepatic re-infections in persons appurently cured but still carriers of amorbic. The persistence of the paramte in the intestine shows the necessity of maintaining the treatment and carefully examining the stools for some time

W A BELTSAN

es, H W. The Priment Metabolism ad the Van den Bergh Test t. Differentiate Ob-structive and Non-Obstructive J. undice. With Fire Case Reports Und Ch Y Am gay vi, offe

Van den Bergh developed - chemical test to dif ferentiate between betructive and non obstructive mundor Before operation tim often ery difficult to distinguish bet een obstructive jamelice dus t such factors as carcinoma, common duct stones, pancreatitis, and hepatic cirrhosis, and non-obstructive pauedice of the acholuric, hemolytic, and

catarrhal types

7) th Ehrbeh duam reagent min t traces f believeben can be detected in the blood serum. The behruben present in the blood seriem differs in the tw types of sundace I the obstructive type t is free and uncombined, hile in the hemolytic type t as bound to the albumiaous material and liberated

s ben sleohol is added fones has tested this method carefully in series of five cases, three f obstruct jambdes and two of the non-obstructs type. The test was ery easy to perform and proved accurat in every in loan W Nurve, M D stance

Rudberg H Traumatic Rupture of the Bile Pastages (Ueber traumatische Rupturen in den Gallenguengen) Upsel Labord Forb 913, 22711,

Redberg discusses the disease pacture of forty-one cases of traumatic rupture of the bile passages found in the literature. In anxietn cases the hepatic doct or one of its main branches was affected in mosteen, the choledochus and in two the cystic duct In four the location of the rupture was not deter

If the tear occurs in the anterior wall it is easily reached, but often it is retroperatoreal, in the posterior wall of the common duct behind the PARCESS OF the disoderant, and then it very difficult

to approach The rupture as all ays caused by violence applied to the abdomen. It is most common in andile In fifteen cases it occurred between the ages of and so years in eighteen cases, between the ages of so and so and in three cases after the age of 40 The youngest subject was so mouths old and the oldest 60 years. If the bale is refected, as for example to calcula of the rall hinder peritonite develops. If the bale is sterile, the picture is extremely characteristic. As the result of the matting together of neighboring intestinal loops, one or more pockets are formed watch become filled with bile In cases of rupture of the posterior walls of the ducts there are retroperatoneal collections of bile The pockets re always coated th fibrin They may contain large quantities of bile, even as much as so liters. Jaundice is beent or slight as the enexpendated balo is absorbed very slowly. The common duct however as compressed by this collection of fluid and no bile reaches the intestine. There fore the faces are of light color

through dramage, the color of the faces is restored because, in the beence of pressure, the common duct remains patent. This chronic peritonitis is regularly accompanied by severe cucherin due t interaction induced by the absorption of bile, compression of the belominal organs, and failure f behavy digestion. The pulse is raped, 140 to 50 beats per roin to T thout operation all cases come fatal termination after few weeks. In operat ing, the essential object is drainage. The most that should be done in total rupture of the bibary duct is suturing of the posterior wall, the auterior half being left open to prevent the subsequent development of stenous. The drain should never be carried into the

As result of operation which releases the bile

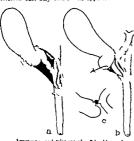
biliary duct The following case came mader the observation of thor

The patient was man 48 years ld who as lacked in the abdomen by horse. There was severe pain, but no vomiting. At operation the following day the abdomen as found shightly dis Tenderpess and dallness extended from the free border of the ribs to the numbelicus Bile as discovered among the intestines. The hepatodoodenal ligament aboved a right angled tear. Separation of the edges of the a wond disclosed as repture of the centles asternov sall of the common doct, a cm. below the mouth if the cysic doct. Two drains of the thickness of a lead pencal were inserted and the bdomen was then closed. The frees were rever light-colored. Following the remos 1 of the drains on the with dry the blury fastula which remained closed alondy. Healing was complete in two most four the control of the control

Homans, J. Identification of the Common Bile Duct in the Presence of an Anamalous Condition of the Biliary Pareages. Surg. Gyec. & Old. 10, 13334, 4-7.

Injuries to the docts during operations upon the lake parages are gpt to occur when there is unrecognized anomalous arrangement or pathological dutortion of the normal relations of the tractures.

The cystic duct may be ery short or the common duct may assume the appearance of the



Appendix and rold was of gall adder and on a sale mine day. I'm I moreous on them has leen his not a first of a first of

Obtained the could of a two mide postibe milliader. I either we the common dietfree and sind de greef ber de led the operation I choleculation. When the printeerom of data believe descrete

Migrit perimenon distributed weted for the monad of the kert red the tast to the present of tool and while present it is at the factor for the present of the tast to the present of the tast to tast

Judd, F S and Lyons, J If t White Bile in the Common Duct. A Sart 93 lix n, \$

The a thors review the literature on white bile in the common duct and the collected cases to date including nineteen cases from the Mayo Chinic.

The presence of a colorless liquid (sitbout bile pignent) in obstructed common in the partic ducts has been believed to indicate increased operation. In the Jiayo Guide series the operation or taking was at per cent in spite of cautious properation ensaires and postoperatic care including the use of calcion transferons, etc. It is believed, bower or that while the mortality is high it is probably no higher than it would be in a series of cases of complete beliary obstruction of the tame duration with green bile in the common and bepatic ducts.

The nuncteen cases of whit bile in the common duct observed at the May Clinic were found in the course of 640 operations on the common and benutic ducts performed during a period of four years In nine of these the obstruction was due to stone in the common or bepatic duct in aix, to trauma at a previous cholecystectomy in t o to carcinoma (one of the pancreas and one of the ampulla) and in one to pancreat ti In one instance the abite take seemed to result from cholangitis. In no in stance in which the gill bladder was present as it normal Seventeen of the mineteen patients were in tensely jaundiced at the time of operatio and there had been no recent decrease in the jaundice. One patient had a baltary fistula One was not | undered although there was complete obstruction to the common duct by a stope in this case cholecuster tom) and choledochotomy with removal of the 1 ne resulted in drunage of bile on the fourth day after operation. The prisent made an uneventiul, immediate convalescence, but died from acute harmor hanc pancreatitle on the thirty second d r after operation.

Room and WeMaster have abone experimentally that white bile occurs only when the obstracted ducts are or connected with a normally function, if gail bilder and conclude that that find is a secretion of the run one of the bilary paragres when collect when obstruction. Present, The fadings and the control of the Clinic best out these control of the co

Seelig, V. G. Bile Duct Anomaly as a Factor in the Pathogenesis of Cholecystith. Serg. Gys. of 0 1 9 3 Mm. 13

Sed g calls the too to the fact that anatorously toombies of the ble duct may be an important factor at the phorones of chokes this A case cited which the tend of centred from the guilt ladder sore-what lateralls and then funked on rivelf erys of housed upward long the little tends and lost the lateral who of the lateral way to be supported by the lateral way the lateral way to be supported by the

then turned to the left 1 empty into the common duct. This rejard duct was nonprosted in the all of the guil bladder in m ch the sam way as the appendix m y be incorporated in the sail of the execut. The posterior sail of the guil bladder was represent in the part of the part of the same y as the normal cystic duct pulled up in the same y as the normal cystic duct pulled up in the same y as the normal cystic duct pulled up in the same y as the normal cystic duct pulled up in the same y as the normal cystic duct pulled up in the same y as the normal cystic duct be pulled up in the same y as the normal cystic duct below the pulled the common duct made to the guilt bladder brought in it was the common duct common duct common duct made to the guilt bladder but the post of the common duct made and the commo

Such a anomaly a unportant not only because of the technical difficulties t creates for the range of the technical difficulties t creates for the range but sho because of the rel tooskip to the pathologue issues of the balary treet. The sharp kinds of the exite duct prod cres stans of the gall bladder contents which leads, first, to prodomal cube and later to non infanon troy bide impossation which altered to demant two.

Nation E Secretains 21D

Clark, J. G. A Comparative Study of Two Series of Gall Bladder Lesions. Surg. Gyers & Oles. 9.3 771. 3.3

The thor has made comparative study of holesy tectomy and holesysteromy reason the standpoint of immediate convalencement improved health, and restoration of working power. If chose for this study two series of 150 cease each. I the first series the ratio of cholesystotiomy to choleers tectomy as approximately swift in the latter series of cause this ratio was practically reverted.

series of cases this ratio was practically reversed.

Clark believes that with the improvement in
technique cholecystectomy is no more kazardous
than cholecystostom.

The outstanding f ets in Clark series of cases or the decrease in postoperative complications and the improved con adsormer in the patients subjected to choice sericolony. The outside heated standard of the control of the control

O the bars of these findings the thor believes that the total remoral of the gall bladder may be extended t larger percentuge of cases

BILLIAN I SEASTLESS N.D.

Pool, E. H. I juries to the Splena Bester M or \$ 1 93 lexival 26

Subcutaneous injuries of the splet are much more common than open wounds and re usuall set in men t the acti period of tile. A discussed spleen as enlarged and frashle and ma rupture spontane. only or as the result of Injury. Any part of the sphern may be undered. In direct pupy the lakes also may suffer. If the Injury is Intrespective and the liberding is alight, the blood may be absorbed. If the capatit is in older as well, more issue factor than the country of the amount depending on the sector of the injury. Delayed hismorrhage in cases of spheric futury may be large subsensible the new

have buch has burst through The symptom of rupture of the spleen depend upon the extent of the 10 jury The midest type may escape detection. Inle a severe injury may be followed promptly by death Pum tenderness, muce he rigidity and an increase in the are of the wheen are prominent sums of continuou. Rupture of the spicon gives rise to shock id indence of intra abdominal hemorrhage. The accomplation of blood w thin the abdomen can often be made out by per custon Percussion of the right fink 1th the ru tent on the left asic grows me to tympanitic not while percussion f the left flank, ith the patient on the right side gives a dull not due t an accumula tion of clots (Chavannas). Hemorrhage en es rec t an early and marked lescocytoms. Deleted here orrhage from the apleen is not uncommon and most be a tebed for carefully in all severe maines t the left ade of the belomen

Splenectoms is the operation of cloner but the prevence of adhenous and the patient condition may render it mathyrable. It may be necessary to pack the apience cound or lights the splenece exists and delay apiencetomy until a more far orable time. Since the diagnosis of splenic myor) is often dificult, thi meason made should be untable for facult, this meason made should be untable for

complete exploration and the care of any associated injuries.

Spontaneous rupture may occur in diseased spiem. This is found most commonly in the milarni.

spicen. This is found most commonly in the milarrit spicen. I the typhoid spicen it is more ant to occur during the second week (Nelchior). The rimitir has be sever or shight. The symp-

toms of spontaneous rupture smally uschade pain in the left hypochondrium in neope and shallow repriestion. The treatment is aphiencion. Softwar of the spiler is not satisf tom as rule as the softwarpill out because of the fruible condition of the organ. Transform of blood or an influsion if salt softwar should be given; if the time of the operation I given the difference of the operation.

common Leash they are due to built so state out and there is now Baccook injun't adjacent structures. During the ar ounds of the replect they because of the common their properties are also exist on the replect their properties. The mortality has because of the use out being partners are The distribution that type of case is difficult. If the impair is caused to builted the ounded destructed and of all must be taken into condentation. The retirement is summer that the condentation of the return the condentation of the return the condentation of the condentation of the condentation of the condentation of the condentation and reach the spike condentation return the condentation of the condentation o

through an bdominal melsion. Spienectomy is the procedure of choice also in this t ne of case WHILE I PRESERT M D

MISCELLANGOUS

Pneumoperitoneum as an Aid in Peters, J J Diagnosis J \el H lu o t E 11

Because of its ade range of possibilities pneumoperstoneum has been heralded a th the usual over enthrougen that greets every new method of It is not considered the method of choice and for Il intra abdominal conditions its indecriming the should be discouraged. In certain classes of obscure intra abdominal conditions, box ever the desired information can be obtained in no ther manner

Preumoperstoneum has been found of great aid in the diagnosis of diseases of the heer gull bladder and kidneys, and of postoperata e adhesions and retroperatoneal tumors. By other methods retro peritoneal masses re differentiated from intra abdominal masses only a th the greatest difficulty and with no degree of certainty

The technique described by Peters was developed by Sante, and in one hospital has been employed in over to cases

harly in this work the apparatus was complicated nd cumbersome. The pparatus now used consists of the pump of a Potain aspirator a hort rubber connecting t be and tw sterile lumber puncture needles A attempt is made t sterilize the pump As is used exclusively for the inflation

Care must be taken t keep the patient head lowered at all times there see the pressur of the gree gainst the disphragm. Il cause pain in the shoulders and embarrass the heart and lunes

Preumoperatoneum is contra andicated by acute inflammatory processes in the abdominal cavity, cute respiratory infection cardiovascular renal charges with cardi c decompensation and cute febrile conditions CARL R STRINKE M D

Eastman J R. Prevention of Peritoneal Con tumination in the Drainute of Abdominal Absceenes. J Am V tar q 1, hax, 833

I one method of draining abdominal abscence the becess as approached by an entirely extraperit neal route the incision being made lateral to the classical poendix incision and extending only to the peritoneum. The parietal peritoneum is then peeled away from the musculature f the flank and the baces opened bluntly t the bottom of the extra peritoneal canal thus formed. The mortality from orienting an bacess extraperitoneally should be praclia diext

I cases of retrocecul becess with a firm wall which has not yet ulcerated the anthor micks the space bout the execum with loose strands of gauge and rubber tube. This procedure is followed after eight to twelve hours by spo taneous rupture and ev custion of the nos. The gauge is then removed gradually and the tube comes out after ten day Patients treated in this a y remain free from recu rence of symptoms after many years

I cases of large and deep appendical abacences in which ordinary transabdominal drainage a un safe a large cuparette drain with a protruding tuft !

gauze is placed on the baces. The wound is then closed around the dutal end of the tube Invariably rupture takes place within forty-eight hours at which time a canal has been established about the tube which as sealed off by peritoneal adhesions H W Frat. M D

SURGERY OF BONES JOINTS MUSCLES TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

Martin, B. Bone Resemention from the Periodterion. Development of the Internasional Liqament in the Forwarm and Leg. (Zur knockerreportation ass dem Periot: Zur Lait schipp de Laguagenten interviewem un Uniterarm un

I nearlier publication Martin reported observations demonstrating that in full grows does the t-oparallel bones in the lower half—fresh extremity earch a pocular influence on one another. A piecularthronia in the radius was responsible for pendarthronia in the ulm at the same level, even though the limb was continually immobilized by plasterof Parja dressing.

A similar influence of the one bone upon the other has been observed in experimental outers and outcompetitie. The those believes that, in man, the tense interosecous lagraneit which is analogous to the connection bet een the ulns and rudus in the old, constitution medium through which mit toon in the old forces of the too between the conduction and the old forces of the old to the old forces of the old forces old forces of the old forces of the old forces of the old forces o

thor's studies on human embryos

That the connectric tissue of the perioateum is of the greatest importance in perioateal new hone formation—as proved by Tunoclais experiments, which demonstrated that transpla ted cumfaum cells a thout perioateal ones hone formation—transpla terms because the cause perioateal new hone formation.

In man the interoseous frament between the line and ridnes as formed later than the corresponding larginett in the lerg and show distinctly, the interference of pure fences. This replains the legislation of the legislation

Frontine, A. Late Rachitie, th. Lat Rachitic Origin of All Deformities of Great hand War Ostsomalacia (De Spatinchita, de spactrichitache Gesser sarutticher Wachstans Deform facter und die knepro-tromalicie). Ergeb. d. Chir. Origin 9 3.

The differentiation of late rachits from the infantile type is difficult. The proposal f Schmod t select the end of the fourth year as the borderine has been the suggestion most generally proved infantile rachits ma undergo tradition in latrachits, and this, a thout any fee unterval maPass into outcomaines. These three diseases should be grouped together. Outcogeness imperfects tards, release the coste-openthy reals, and chondredystropies fetals must be differentiated from them.

Lat inchita, even though previously described by Other and Tromeseu, was recommed university only after the exact pathologic descriptions of it by Schmotl, Looser and von Rethinghausen I be suttor option, many of the cases of endetus, how desaid in the World War were of this atture and even if these are left out of consideration, the combine to make the common than ye generally believed

In the chapter on the pathologic nantomy, the condutions of carlection, the changes in the sons of growth, and metaplism in the bones are charged with the and of numerous illustrations and an analysis of the works of Schmool. Looser, and von Rechaptinson. In the parts of the sile kets from the during the presence of the diseases there is deficioney of calcium. This is true also of the growth carriage and the fourt carriage. The newly formed boos is reticular and also we changes in the marrow.

The disturbance in the chossinal condiction is characterized by the absence of the preparatory sons of calculations, widening of this more of calculations, widening of the more of cattering one of the appearance of importion blood cesses In addition, there is more of the broad frame to said the control that of the cattering of the order of the control through the cattering of the addition, sincered, the accounting for the addition, sincered, as alsel out appearance of the ends. I the displyses

in the severe class. The course of the rechtin, is high there are instally remnous and recurrence, leads it the form tion of several zones of calcular tone (radiaction bunds). If these calcum bands are not completely decomposed, there more forward tong at the design and the process of healing. The best of cartilage formed in the process of healing. The best of cartilage formed in the process of healing. The high does or the manufacture of the process of the process of the process of healing. The design of the process of the p

one continue the same transportant are found in the apphyseal cartilage poeur also in the joint cartilage.

The chinical symptoms of lat rachitis are the same

as these of the infantile form—the the exception that older children and dolerents subjects, symptoms are mentioned and there may be retardation of sextual development. The their symptoms are pure receivable in the assets of great the mention are pure receivable in the assets of great the mention of the three seedings in the kines and foot reclaimed to the three t

tus, whereas in young gurls more esteemalacic symptoms were noted

In the interpretation of the contiguograms the changes in the ultimate bone and those in the most of growth must be differe instel. The diagnosis cannot always be made from the roomigenogram because the hypodistic cases show few if any changes in the zones of growth and in the early cases a rootigmosologically demonstrable change is entirely about. However in Bestere and moderately severates, a diagnosis is possible of the rootingoogram.

a considered with the chared symptoms Among the most imports t signs f rachitis are the deformaties of the bony ystem. The m pority of the deformities of growth are crused by changes in The fleubility of the zones of chondral osuficatio the diaphyses is dependent upo whether much or little ostead theme is formed. Besides the simple curvature, deformities develop at the rates of frac tures and fisaures. In addition, there are areas of disintegratio Through these which occur also osteomalacia, osteopsathyrosis, and hereditary 23 philia, the author endeavors t explain an entire series of disease pectures of unknow origin (chrome ordems of the foot, other anomalies of ossification and true joint bodies) The most imports t and most frequent are the deformities which arms at the ntes of chondral osmication in buch longitudinal growth occurs. Here it a the deficiency of culcium which causes hypersenuti eness t trauma. An other possibility is loosening of the epiphysis

Individual deformaties such as gen algum and varum, cora vara and valga, M delung deformity i the hand, hullux valgus, nd cartilagmous exosto ses are then discussed. Passing next t. disturbances. in the chondral growth of the epiphyses, the author summarizes his sens regarding Perthes disease by stating that very many clinical, roentgenological, and microscopic findings indicat that the rachitic discuss play an important part in its origin, but that further investigation is necessary to answer this questas completely Corvature of the spine, per planes and per valgus are cited as examples of de formity of the sones of growth. Exectoses and grou formations on the os calcus and olecranon belong to deformines t the inter of periosteal councation Rachita is the primary disease of esteochoodritis dissecurs lending to the form tion from bodies

The most important dements in the treatment of rachitis are the regulation of the patient I rung conductors and the administration of phosphores, conductors and the administration of phosphores, conductors and the control of cont

possible after grooval treatment for at least two weeks and the administration of phosphorus and inliner oil. General treatment and the exclusion of f ctors which might lead to fracture mint be instituted also when the \times ray demonstrates the presence

f areas in the bone indicating disintegration The prognous of lat rachitis is good, but with respect to the permanency of the cure it must be guarded (chronic deforming processes in the joints) In the final chapter the uthor deals with the condition cilled octeomalacia a term still used in spit of the recognized similarity of the disease to ht rachitis The numerous cases of this affection in the bospitals and nursing institutions during and after the World War is explained by the fact that it usually affects persons in poor co dition and of d anced age in whom it is I wored also by lack of exercise in the open air. Its frequent occurrence dur ng pregnancy is explained by the extraordinary demands on the organism t this time. It is generally belie ed today that in osteomalacia there is a pluri glandular endocrine disease associated sometimes with hyperf action and sometimes with hypofunction of one or more gland. The difference in pathologic anat my bet een! te rachitis and osteo malacia depends in the first place, upon the fact that the disturbances of dochondral ossification beent herever the hyaline cartilage disappears (it remains in the ribs and joints) According to the in estigations of Pommer and Looser the origin of the calcium free mareine is not always process as osteoid margins may develop from the deposition of newly formed bone even in bone which In the explanation of the localization in fully grow in the skeleton the biological conditions in the bones are of importance as ell as the mechanical The avestigations of Partich and Schmorl and those of Al ens have shown that the bone diseases in adults observed a thin the last few years are true osteomalacia. The clinical symptoms show certain differ ences from those of late rachitis (higher incidence of the condition in women, predilection of the disease for the ertebra and ribs, in such there may be true rachitic rosary) Rational feeding and th ministration of phosphorus and cod liver oil consti tute the essentials of the treatment

Il the racintze malacot diseases—among which be distinguished to subgroups, the perotic and the hyperplastic malacia— on Recklingtunism lacidoded fibrous ostetia (nestinguishe malacia), the deforming ostetia of Paget (hyperost its melaplastic malaci) and estrogenesis imperfecta (myeloplastic and hypotatic malacia). Sixterives (2)

Guenther B. Tumors of the Parathyroid Gland in Cases of Multiple Glant-Call Sercomata of the Osecon System (Uber Epsthelkomperchentumoren bet den multiples. Resembliesantomen des knock mystem). Frankfurt Linde f. Pailad. 9.1, xxva, 201

Following review of the cases of parathyroid gland tumors associated with esteomalisms and re-

lated diseases which has a been observed up to the present time the tior reports the case of a diversioid man it to extensiate, multiple, so called my closer and my closureomations temore throughout the entire oseous system, and a tomor of the right parallyroid researing 37 by 5 y 3 y 30 means and the meaning 37 by 5 y 5 y 3 y 30 means and the meaning 30 means and the parallyroid section of these tropes of tumor to tumors of the parallyroid gland, is summarized as follows:

In almost every case in which changes in the parathyroid gland were found in association with multiple brown timous of the osseous system, there as tumor like enlargement of the gland

The principal substance of the proliferating cells of the paralty road gland consists of cells which are stained deeply with hemostoryin-cosin. There seems to be some relationship between the function of these cells and recket and osteromalicia.

3 The extent of the hyperplasa of the pars thy road gland in cases of multiple grant cell aircomata leads to the assumption that in this condition the ordeous system is greatly afferted, either indirectly to true substance, as Erdheim surgests, or directly through abnormal function of the para thy road gland.

These lacts considered in connection with the findings of other pathological and anatomical investigations and the clinical course of the timoris indicate also that in multiple guant cell segeomata—a are dealing a the a chronic inflammatory or rather a reginerative or degenerative proliferation, instead of true blastoms.

Oegood, R. B. Myeloma of the Vertebre Bases M & S J 9 3, chxxvva, 350

The author believes that many cases of my doesn of the critish have been uncorposmed. An early diagnosis is of importance Attention is called to the forts unrecognized fact that the symptoms are intermittent. Outgood describes case hick covered period of air years and in which there was a recussion of symptoms for nearly two years. He states that the best review of this subject is that in Eurig. book on neoplastic diseases. The bibliography in this book in highly commended.

Outpool recommends Chiratians work on the histology of my storms and Weik discussion of the relation of multiple viscolar tumors of bone in my closus. E mgs definition of mysions is que to as follow. A specific multiplastit tumor i the bone narrow arising probably trem i imple cell type and characterized chiefly by multiple for a foregain, a uniform and specific structure composed of plassically of the companion of the companio

Osgood states that he no knowledge of the etaology of this condition although infection as cruse is sometimes suggested by the chinical parties and the general aguificance of the plasma cells. The disease t times resembles surritional disorder

falling rato a group with osteomalacia, and perhaps osterins fibrosa, ostellas deformans, and policis

The chorf interest of three cases respected by the author less in the fact that spinal prospects predominated. These cases were smaller as channels to the its reported by Turner. In both of Turner cases the dominating symptom was pain of a bound character. In one there were symptoms of conpressure and mental symptoms. The blood feedings as in Osgood cases, were angular, and the sraecontained no Beace Jonos protein. In the fire cases the recutigeorisms of the spins were inconduce, showing marked strophy and some chairs in the
shape of the bodies and the intervertical desc

The pathologic tierce was christicistic. Multiple implemate may closely similate tuber colors caree of the spine. Nother the hintoy of the came not the footings of the pipused examination in the early stages are characteristic of the precess. The absence of Bence Joses protein from the unus does not exclude the condition. In doubtful cares rootsteengments of the about Jit the polys, and the long bones may suggest the nature of the dessea, even when those of the virtebre are isometisses.

This far so free times that surely independ on course of the fatal multiple tenus provided and course of the fatal multiple tenus provided a tenus of the fatal multiple tenus provided a tenus. The proposes around from my elema of the spine are leasened and may be temporarily belt as because by recomberly and immobilization if the disease is not fee attention and multiple tenus party in it the bounce or completely fund

Ogood urges that until some other nomenclature as generally accepted, the term—neatingle steptom be restricted to the type of growth found in the cases here reported Prints Lieuvi M.D.

Meyer A. W. The Theory of Muscle Atrophy at the Basis of Experimental Investigations (Theorie dat Muskatarophie sada capermenetics Uteraclessings) Mat. d George d Med. Chr. 0 1, 333 05

As local muscle atrophy generally occurs after the cones to the conclusion that the tension theory can easily be made to include all the theories at vasced up to the present time (the theory of inectiity the theory of infanusation, the reflex theory and the stretching theory).

According t the transon theory the muscle tone is conditioned of execution both constrainty causes decomposition of metals substance but leads to strophy only in the absence of movement causing represents, as in artificial inactivation. Soutable stretching of the muscle is causing but the composing towas constraints (3).

Schubert A. The Origin of Inclammic Contracture (One Enterthing der achtenischen Contractur) Deutsche Einfer f. Chr. 0. citzer all

The merry of muscles resulting in rechemic contracture reaches its beight must to eight hours, causes

nermanent condition, rarely regresses spontaneordy but does not lead to necrosis of the extremity A vascular interruption lone produces either gangrene or no permanent change but it never results in a true achiemic contracture. Ischemic contrac ture is due to the simultaneous injury of an artery and nerv The nervous regulation of the capillary circulation is arrested. A neuritis induced by trauma may also lead to considerable disturbance of the collateral circulation. An importa t factor still further favoring the development of nchemia in cases of simultaneous injury of an artery and nerve is an immobilizing bandage. Particularly in the elbow where the arteries and important was cular perves are close together in narrow fascial spaces, bandage may increase the injury to the

here's caused by the pressure of an effusion of blood. Therefore the new of creatly plaster of Para bandage on the arm should be orded. The conduction of the artery and next should be not estigated most carefully even before the polaration of a splint of olstraction of the circulation threatens, the m jured site should be exposed surgically. The rup sured artery can then be ligated. The nerve should be freed from to bed which has been narrow ed by the harmorthage creatlat, and the reduction of the fragments then effected. If the patient with scheme contractive comes for treatment when the muscle is completely degenerated and replaced by a correction of the open contraction of the contraction to the theory of the contraction o

catrical tissue the treatment can consist only in correction of the contracture which is most proposed. However, (Z) Wolf H. F. Acute Subscremial and Subdisted Burdile The Clinical Picture, Etology and

Treatment. Am J Surg 9 L xxvm 59

This article is based on barryations made in

more than 200 cases

The only difference in the chincal pacture and ethology of the subacromostal and subdetional types of burnins is the localization of the tendersons.

There are two forms, the full mixture, in which the disease begins suddenly or with ery slight warming and reaches is beight within (sw hours, and form in which symptoms are observed for weeks. The latter asser becomes so severe as the former. The pain is excruciating every motion cutuang agony and the arm is generally pressed agunst the body.

I the fulminating form swelling of the shoulder has been beeved

The difference in the chinical pacture may be explained by variations in the virulence of the infecting organisms.

The repon of the burns is excreedingly tender the tenderness often extending int. the surrounding tissues. There are no signs of inflammation in the skin but the temperature of the skin over the affected area may be slightly increased.

In about 50 per cent of the cases the aboulder alone is affected. In the other 10 per cent, mainfestations of the underlying cause were seen in other parts

particularly in the arm of the same rule the entire arm or parts of it being swollen. The joints themselves are not affected, only the subcutancous tissue being involved, but the restriction of motion may be ery marked. Bilateral burnitis is very rare but in some cases complaint is made of "rheumatto".

pains in other parts of the body
A brachial neuritis may precede, accompany or
follow a stack of subscromial bursitis P reside
ma in the fingers, hyperesthem of the skin and
tenderness of the new root will help in establishing
the diagnosis of a complicating neuritis

The clinical picture is due to an infection by streptococcus viridina. The focus is generally found in the teeth or tomals.

When the it ck follow an injury the injury caused a diminished resistance to the streptococcus viridam. The effect of salecylates is suggestive

In some cases lime deposits are found but the treatment outlined cures the burnus without changing the deposits. Occasionally deposits are found also on the unaffected side. The lime deposits may cause the irritation.

Subacromial burstis is, strangely enough, often confused with brachial neuritis. While it is true that both may be present at the same time, an uncomplicated neuritis levves the motion. I the arm free,

however severe the pain. Therefore and middless of the point is characterized by slow development and mildless of the pain. Tenosynovitis is never painful while the arm is kept at rest or when moved passively but there may be ery sharp pain when active motions are attempted.

The treatment consists in very gentle message with the whole hand, the application of wet dressings, and the administration of aspirm. In very severe cases—light icebag or ce compress is indicated. Aspirun is not absolutely cessary but when used, should be diministered in large doses.

The massage abould be given once—twice a day with very high pressure and could not for twenty t thirty mustes. A motions should be made until the pain subsides. There is no danger of the formation of discussions.

This condution is due t a focal infection therefore the focus should be removed if it can be found As it is generally possible to cure the condition by the methods discribed, only teeth with distinct abscesses should be extracted in some cases in which the extraction of such teeth was done relief was obtained four to five hours later.

Not infrequently cases of old sub-cromial burstise const under observation with acut excertasions. These are due to a focus which was not removed during the first attacks. The treatment is the same. The pain disappears just as readily, but the restriction of motion present before the new attacks persists.

All forms of applying heat, the trie of the bot water bag, baking and disthermy are strictly contra-indicated as they aggravat the inflammatory process Of the husileeds of cases, ool three wer not cured and in these focus could not be found and the patient discontinued treatment after three to five via t. The cure wa at a set blobed within tea days used often in three t found is.

Cown J. Th. Relation of Sciutics to th. Sacroliarc J. Int. P. J. J. J. 17

In review of forty cases of scritter Cowarm treft to the tree till point print in a frequently soot of a the pain long the script care is and that practically even case pressure the sero-tility point causes acut print long the course acut print long the course of the new. If behaves that the print is neutralize and available caused by peri rebest or an intertitia is of ing the sacro-tiles tout.

Attention called t the fact that the acro-slice sount aumors ted his riskes from the fambosteral plears, high is also the origin. I the seatur nerve. The plearss less immediated a front of the least being explicit ed from the only the perform into the Therefore be est moon pen arthriti ondel produce result if the next is nerve.

The other show. In the pain of so had not produced by bending or alliang or in too had to the true on the sare had paint from the true on the sare had paint from the free strength of the free strength of the sare streng

On this assumption that the sacro-ili c for the est of the trouble, the uithor directs his treatment t the joint, giving no treatment t all along the course of the nerv. If her obtained excillent results that the six of distatering as direct. This treatment be his found superport a say other enervel live in thoronic cases. If r N Wary W D.

Kehl I xternal Recation of the Leg I. Diseases of the Hip Johnt (Lebrt de A. securetation des Benes her E. trankingen des Hischeplenkes). Birts Hi. Chr. o. 23. 438

Out and not too of the legs at he rule all actuars It is not does entirely to the eight of the legs at the freely hanging leg in a case of fracture of the former is not 1. Totated out and The decret factor is the interest to the congest point himment in the ledy in the information legislatest. All, under native for most between the activation of it is quite and the intertrochanteris lines, runs sprailly around the per part of the high. This lighter around the intertrochanteris lines, runs sprailly around the restriction to the content of the content of the content of the content of the profit lines are set in the leg falls in an own in the durection.

Such relexation m y occur in pathologic condtions as in fracture of the neck of the fermur. With the gletters medius muscle, the muscles passing from the pelus to the thigh and leg elevate the large fragment and thereby produce aborining of the lapsyred leg. I ter. I not ten then come in the result of the approximation of the point of at tachment of the defendral I grusselt and the is, then I the streaml not ten. We be restricted than I the streaml restricted to the branch of freehment of this Jament it is external rota toon. I cota varie there is deplacement of the coutant for the stream of the stream of the as the first deformit; results from sight bearing as the first deformit is related by the ups and more ments of the next of the fermine.

over the forms of the from attempt Is under the present present of the tipe legislated on the influence of the tipe legislated on the influence of the tipe legislated on the influence of the tipe of the forms of the tipe of tipe of the tipe of ti

Scarrage (7)

Perthes, G. ad Welsch, G. The Development and Log Bewalts of Outcockoodshifts Deformation and the Relationship of This Defeate we Arthritis Deformant. (I bef. 1st a king and Fid angiveges after Developments delim all Fid Sections and the Relationship of the Computer of the University of the Computer o

The uthors report the findings made in subsequent extinuations of fourther cours that have been experted to be been experted to become and Tax langua from the region long and the decrease and examined after four six, ten not thankers exist fully some ery claim activative rountierpoorgrams of the heart of the feature at included in the article and are discussed with the histories of the cases.

The cuse of httle grt, hick is tollowed for four consecut; years t the Toeksagen chase flords the rare opportunity of controlling the ery beginning of the process and demonstrated that the saften and bone hach a charact rather of outcochondrits deforming jurcipals in 3 begin in 5 beginning.

channily posmal femoral bend aboving pormula structure the tomatin partium flows as leng as the process of destruction in the bose progress, the process of destruction in the bose progress, the clinical variations consist of extraors include of behavior distribution that is a second of and extraors on the thing the Trenderholme partial and absence of pri. On the other hand, improvment in the mobal ty is frequently observed at time which the destructure processes in the head of the femur do not seem to it. Treshed there clind According to Perthes, the total duratio of the entire process from the appearance of the first symptoms t the occurrence of the final form of the head of the femur is about four and one half years The final results of this dracase as shown in the roentgenogram may be divided into two typical

forms, namely The spherical head (deal healing) which the authors observed in five cases, those n which the process of destruction did not dvance beyond the epaphyscal line. In four the gut had become entirely normal but in one there was al ght lump Abduction was possible to 60 degrees, and the Treudelenburg sign was absent Four cases showed no shortening but in one case there was ultimately

shortenme of 5 cm

The cylindrical or fungus shaped head. This was found by the authors in ten (tw. thirds) of the cases. In one case the condition was bilateral These cases showed considerable decrease in the height of the head and broadening which crused t t project laterally beyond the acetabulum. The

joint line of the head remained very sharp ev dently because the cartilaginous covering f the head was it no time during the long course of the disease senously affected. The neck of the femur

as abort and broad and in many instances had assumed varus position to the head. The cleur foci in the bone had entirely disappeared as the mlands of cartilago had formed a large amount of new bone. The acetabulum had ccommodated itself fairly well to the changed head, having assumed a more elliptical form I five of the cases the guit had become normal again. Four of the patients imped singhtly and one imped markedly the waddhag gut In seven cases the Trendelenburg mgn had disappeared, in tu t was shight and in one t as somewhat more definit but by no means so pronounced as before. The formerly restricted beluction had returned to an

erage of 4 degrees except in one case in high it remained estricted because of extensi trophy of the trochanter. Flexion and extension were normal, and rotation was only slightly chonn ushed. The measurable shortenings amounted to

of the principles who were re examined later than ave years after the beginning I the disease, the majority ere free from pain. In those cases in which about pain was till present the bearing process was probably of entirely complete. In every case thout exception, constant improvement was noted after the third year. There as never any crepitation. All if the fourteen patients subsequently examined felt entirely well and worked w thout hindrance in the most aried occupations

These observ tions, together with about so late findings from the literature (the article is supple moduley from the interaction (the action is support mented by a complet bibliograph) confirm the f orable prognous of this disease, which Perthes has counts (by maintained. They also also that an operation on the joint (Frund) is not indicated.

and that treatment a th a pleater of Paris cast or an extension apparatus is entirely unnecessary

I regard to the relationship between outcochondritts juvenalm and rthritts deformans which has been claimed exently, the authors state that this relationship can be demed on the basis of the important differe ces between the t o processes

i Osteocho dritis juvenalis begins with a focal breaking down of the bone in the interior of the epiphysis of the head under an intact covering of cartilage, while arthritis deformans begins with changes in the joint cartilage followed by changes in the dracent bony tumbe

Osteochondrita prvenala is confined to a definite period | f life previous to the completion of confication of the head. Arthritis deformans has no such time limit, occurring most frequently after

the completion of growth

3 Osteochondritis juvenilis usually comes t an end after a definite period of time. Arthritis deformans constantly progresses

4 With the complet cure f esteechondritis inventilis, nearly all of the symptoms, which were light throughout the course of the disease disppear I arthritis deformans the symptoms increase constantly

The possibility that an arthritin deformans may becom associated secondarily with osteochondritis must be admitted, but the cases observed up to the present time do not support this assumption

The utbors were unable to find in their material indicatio that trauma is the chief factor in the etiology of osteochondritis deformans invenalis They eject also the racintac origin and are inclined to accept the theory attributing the condition to a congenital anlage. The pathogenesis they describe as follou

Small portions I growth cartilage remaining untilized in the bone foci of the growing head of the femur as the result of disturbance of development are stimulated t independent growth by an excit-ing cause such as trauma and infection. At the same time they partially destroy the already pre-formed bone and ultimately become ossified themsches Weight bearing and the abnormal new formatio of bone then cause deformity of the soft femoral head. When the proliferated cartilage is completely confied, the disease process ceases

MARWERER (Z)

Budde, M Precoclous Omification of the Epiphyseal Lines and Its Relation t Chondrodystrophia Fetalis (Ucher ozening Wachstums-fagenverknoscherung and ihre Bezzehung zur Choodrodystrophia foetalis) Frankfari Zischr f 0 XTTEL 46

The author reports two cases of precocsous foling of the epophysis and durphy sis in long bones. The first was that of a 12 year old girl a ho for six months had pain in the left knee joint and walked with a limp The left femur was 6 cm shorter than the right Complete extension of the knee was impossible

The roe tem poture show of the set of the disturbance to be not be lower end of the femur. The disphysical segment showed consider the siten as not embracted the epichysis in the form of an erted. The engible seal line was bent recognic ble only

the lateral condy k. I the m life corresponding to the pix of the ling of d. I had entirely deappeared. The lot of view howed a considerable b. C. and deflection of the epithy in. This as therefore, case of preconcess ossification of the explosed between the positival phase.

The second case was that i 4) rod g ris it as animetrical d arism. The arm and thigh were short. Bilatersl gr rum as associated with cubitus arise on the right side. The rotatign per turn showed the time hanges, took highly as it the first case and similar changes in the low rend of the humering.

I the wibors opinion both train and richtican he ruled out in the entology of this rare disease pictur. If points out the great resemble need the condition to choosilood-strophin let liu, hich also leads it precisions a nostious and his leads it precisions, a nostious leads it precisions, a nostious leads it precisions, a periodi to it. It is list form if hondrod strophina. If concludes that the non-trainmats or inflating to a pre-cossess ostifications of the internal continuous consistence of the normal continuous continuous to include more than the continuous cont

Chesky \ F Primary O teomyelitis of the Patella Report of Care and Review of the Literature very Greek & Obst. 0 1 to

Thin it osteomiests of the pitch is viet rare condition. I the cases reported in the birrarier is a never found before the fifth year of age and it greatest incidence between the ages of 5 and 5 the period of ossification of the pitch.

tan period of ossibilition of the pitchi.

The oract is ery much his hi tof osteom chits as any other part of the body. The because juric tacally always point asternoty, the kince joint being mol ed therefore only in 1 to neglected case.

m of ed therefore only in I to neglected case. The prognous regards function is good the early operation. I children, the priedle is frequently reproduced I the personteum is preserved, en after complet, removal.

Dan H Cent, VD

Moether B. Cultus Formations on the Metataretic Without Fricture. Urbs. C. Bubikkeness ofter Friktura den Michalar ika). Viscock. in J. H. Alander. 9. Fox., 475.

In an experimental inn estaption the a thor made critisa obsert tenns luck any plant the ctoking of the partial sprade shaped cribes of the metalty in described by Deutschlessed. When artiferal defect was made as the radius of dog booting of the street or the shape of the properties of the street of the shape of the street of the critical sprade of the shape of the street of the recursorched, called the appeale shaped has of bone was deposited. The ultra-creasives this procrea, described also by Martin, as true callis à mation without fracture reaction to constant framms (constant)

Von Dittrich K. The Cause of Hallux Velgas (Urbet die 1. tstrhungsarrache des Hall. algus) Irch f. orthop. (Urll Chr. 2011)

In the author openion, the her cause of lidar again is a fixing a to the froot in abbettom. In peak in the four of the best of the first next as all none due to the manner of after any and next seed for the counter preparter of the promat most read in invarid it, a toon of the fart ray, but is not bound it the lateral next trivial! By any meeting the counter of th

De proréh tatie citólogo di haller valeno sem frende lo the rilation of the neristanals i con stroller in the roestgrongem of the normal lost is conquired that floot in thallow valent. The base nordison, the author bel eve is herefutary and raperted subsenta of the entire liquinetison and fascult paparatus, hash leads to relativité of the arth of the fost to seeming of the halle fout if stoot, arth of the fost to seeming of the halle fout if stoot, the chapter of hall valgon as a result of the balaction state.

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Lópes Trigs, J. T. The Treatment of Volkmann. Inchrenic Gostracture (11 trainment de la retraction seprénic de Volkman). Publit Valencia de inclu.

In case of Volkmana achemic contracture the Cope Tripo diaphiest reservoir is needlesh traum trang. The method of choice is a fendua lengthening procedur. The pentors in trial ment should be during the contraction of tropis) due to prolonged march trit—of the further of t notice to adherours.

Ps on solubization should be begin the that after operation of from the tenth did ben the subtree re-moor of, the Liu over the atterior surface of the foreast benefit of the rest of the most of the content should be massaged; increase the tall to of the most of the content of

Harmer T W. Certain Phrase of Surgery of the

In old infections ad injuries of the hand much or to accomplished by careful disection of the exartisace the use of fat and skin grafts, and eareful supervision of our motion in the after treatment. The foremost consolection in this skid of surgers is the prevention of anthoring adhesions and contract

ing scar tissue.

In the suturing of tendons or nerves in fresh injuries the author uses an overcasting stitch of silk or linen. Very early active motion is instituted, and stretching of the approximated parts is prevented by careful solution

In order to prevent interference with the circula tion, pressure on nerves, and postoperative coming no tourniquet is used Effort is made to minimize traumatism. A sharp kmfe is preferable to the

acideors.

The treatment should be carefully planned before operation and the motion of each phalanx tested separately. It is useless to do tendon reconstruction on a finger in the presence of anky lons of the proximal interphalangeal joint. A tiny arthroplasty is necessary. In the datal joints this may be reserved for future operation

If the deformity is limited to one finger and interferes with the use of the rest of the hand, am-

putation may be indicated Pedicle grafts from the abdomen, buttocks, and thighs are extens: ely used by the author to replace the shiny adherent skin over the mjured tendons

The palmers longue is often used to fill gape, and alk satures hav been found serviceable, especially m old valsions of the extensor tendons at the

terminal phalanx

In old infections of the palm the introduction of iat a valuable procedure. As rule this graft is a pedicle graft of skin and it. The structures, in cluding the lumbricales, should be carefully dissected

Where there is loss of tendon substance it is best to graft the alm first and delay the repair for a later operation. The a their cites several cases t show

the alux of this procedure In cases of old injuries and injections about the

wrist and forearm wide increson is necessary often extending from the base of the palm up the forearm and de sding the annular hyament If nerve loss is great, i may be best to resect a

portion of the lower ends of the radms and ulos to

lacibiate bridging

Cases I diffuse tuberculous tenosypovitis and a case of diffuse angionia of the rist were treated by complete excusion ROBERT V FUNCTION, M D

lon Stubenrauch Autopiestic Transplantation of Bone in the Soft Parts (Butrag am autopies-tuchen Kaochenverpfanzung in die Weichteile) Frankfurt Zische f. Path. 9 2, xxvin, 477

In 909 the uthor removed the tuberculous first phalaax of the ring finger of sear old girl, together th part of the dorsal tendon, and tramplanted into the defect the first phalanz of her third toe, with piece of the dornal joint capsule and g cm piece of the extensor tendon f the too Primary bearing occurred

After six weeks the metacarpal and interphalan geal joints were fairly freely movable with the use of a little force. In the roentgen pecture the trans-

planted phalan cast a dense shadow and its upper coinhyscal line was still distinctly visible. On the radial side of the transplant were several small ossification shadows

After one and one half years the finger was short ened and movable as before. The bone shadow was considerably lighter the compacts of the transplant had become very thin and the upper epiphyseal line could not be seen On the radial aide of the phalunt, the 't-ray showed, in the area formerly

occupied by the small confication shadows, a small spur produced by apposition of bone

After twelv years the shortening of the finger was more marked and there was no improvement in The transplant had remained bealed in place w thout reaction, but is shape was somewhat altered. The roentgen ray showed that the compacts of the central portion had become considerable thicker and the spur had entered the bone substance of the phalanx. An enlargement of the plate suggested that during these years there had been an alteration in the spongy structure a regularly con structed parrow meshed framework having been formed in the middle portion

Contrary to the findings I other investigators. there was no continued survival of the epiphyses! cartilage at the end of a year and a half it had dis-assumed that the transformation of a transplanted small bone is complete in about three months, this process in this case required in the longer period

In another case von Stubenrauch attempted to implant portion of bone in the soft parts left after diserticulation of the hip in order t obtain a stump suitable for a prosibesis. The patient was a ca year-old woman with an osteochrondrosarcoma of the femur. Immediately after extirpation of the femur the a thor grafted into the soft parts a 5 cm purce of the tibes of the imputated limb from which he had curetted the marrow. He then sutured the muscles about this bone and into the peripheral end of the empty marrow cavity inserted a glass tube for the drainage of secretion fortunately infection developed, making several inensure necessary Because of this condition, the author sought to remove the transplant after four teen days, but found it had become so united with the surrounding tesses that even the strongest pull with forceps at the projecting end would not loosen As the suppuration stopped, the transplant was finally removed after three and three fourths months

this was performed the difficulty because about the bony cylinder as well as in the cetabulum the tibia had become adherent t the surrounding therees through newly formed bone tuene so that an uneven covering of bone plates remained in the stump hich were clearly to be seen in the roentgen picture fourteen days after the operation. The removed graft was examined macroscopically and microcopacally

The erosions and processes of new formatio in the transplant wer all from the persosteum outward and median different are as ording to the legree of the for funded in This compton loggith that the belong to of lowe to plant in your reducted fuller in

I seed to the thir states that I creater in performing the oper tool will use precessed on not book book ut I gited. If I i i i i i

Alberth H. A. The Choice of the All. for Angue I tion with Reference I. Salvequent Prosthetion with Reference I. Salvequent Prosthetion in the Reference II. I have been all the Reference II. I have been a series of the Reference II

Il thout entering wa વેલ મહત્રનાં જ દ ach ances the technique of oper tion and the coult in the laft where the thorage es the T USE £17 t remaha the send if import on it on her of important thou first of II i mun t by In the pens net of most time f fall (es ble II., principle holds onl for the tipe extemt ber of mire functor of tump of also the born input in brighter thered tauch a fer I ad in b mapper th t some t real model of 1 these be and period birth ill of the custome to Hoth a the pa tient and thu t thas been demon t sted th t Il foot amout two below the malled 11 0 acelle t tild t and certai peleneralene of prouters an or er et e the effect secund in

mput too lebus the lare. It should be 12 doord any the soft it was enverage the side and the old the doord any the soft it was enverage the side and the old the shouph as the set is reblang of personner and size the beard if no at the trachment of minimal heal more diffusion for dom at special outsinesses. Person with the characteristic and the heavy to force a properly the bear and the set of the trachment of the the person of the person of the trachment of the set of the trachment of the set of the trachment of the set o

To an orterol 1s, proceed re one should be certain of the result. I amput turne of the legit the said feeting and feeting and the result of the result of the result of the turns hould be read in red. I feet soo can make evit of this he hould make a sea of the heat here as a support for the position.

I ampet too of the furth the proxim 1 h d to one should secure a 11 covered temp from 4 to on an elegate or mut the mission find the received with equal of the proceed with equal of the proceed with equal of the procedure to both cases type 1 of ecute providence can be caul it hed fothersise the promary adopts too of the rich of 1 hm furnished with the cases of persons engaged 1 ph is a labor

For it's a applic tion pollor the majorit of ses of pures kincipple tic operations are meless In the case of the efton joint a super see he amputation of the humans is to be prefert to present tion of the just of the jus

FRACTURES AND DISLOCATIONS

Guider II; The Prognests of Dislocation of the Manufeer Joint (For Progress der Schol mete-1 univers) Schoen seed II have 1912, L. 4.

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I oliveleg review of the among method of the timest the surface district that the first by the tracted being illustrated them of lastices after the reduction of a do to as extensed harmful. He mere while Mathiats he insust appeal intended as the documentation of the theoretic than the surface of the first that the surface of the first that the surface of the first the reduction does not apply the latter than 1 g and allow the parties it parties actin more ment the following right; life the review and in recurrent or all total disbustion led to act the contract has obtained about ourse in open return of the coates. A meany of copies of the first hand the surface of the first than the surface of the first than the surface of the first than the surface of th

bubber in terul includes all the cases of an

ear or comp or held in treated by recently at this ears, in this here he I been a more or less prot acted inmodalisation of the arm. The ross frequent disher time, the subservoid da lacit on (44 Fper ent). The right side affected at 7 per 1. Ahong 3 (2000, col) to right 6 if per centil had permanent solar. I the complete core obtained as that years here had been completed by the rarge period below completed on the permanent solar of the complete core. Obtained as that years had not been completed to the control of the period of the period of the first had because the right times and more latency. It is the left, and varies upong deferrable to positions.

I listent occurred in oid 30 per cent of the ses of uncompile tred disk time. Imong these as a sein liste prediction as shore feety days firer the migray motions we begut the erry fleet dy after the reflection and cure result disfer

thirt three da. The demand for companied to was prompted the m best of mes by traumatic arthritis I quently the conduct or does not represent the mean at the mean terms of the mean terms of the mean terms.

to rule the period of lettlang wi honger in cases of stilling oblications (terry) hirre dairy) but even these healed perfectly. If the complexitions the most important examine no square of the hone would the give terr it knosst. I have per a 1 of the par sease with complete fed dislocation are reen of parma seast competed than The labour the give temperature. The state of the give temperature of the temperature of the state of the give temperature of the state of the give temperature of the state of the sta

re present, the prognosis is unfa orable perma nent compensation was necessary in every case of this type Dirus (Z)

Fairbank, H. A. T. Operative Treatment of Dislocated Hips, Congenital and Pathological Frac Rey Sac Med Lond 9 3 xm, Sect Orthop

Open operations re esorted to by the uthor to effect reduction, to prevent relapse in a hap already reduced, and to relaver pain in an kl dislocation Cases mutable for open reduction are those of children bet een 3 and 6 years of pe in

none of children net een 3 and 0) ears of Fe in hich the dislocation has estated t manapulative tempts. Cases of analytical dislocation in children ver 6 years of age must be carefully selected. N

cases of bilateral dialocation in children over 6 years should be operated upon. The uthor believes that manipulative reduction is usually the method of choure.

Operation must be preceded by manipulation and tretching of the muscles. On the operating table the patient is titled slightly toward the normal side by means of sand bag under the sacrum. An incision is made along the creat of the alignment to the control of the sacro specios or pine and downward between the tensor fusion femous and the sarrooms. The muscles are tripped from the hims subpensetable partially or completely divoked near the least redealart. The point is opered on its anterior aspect low on the neck. The capsule bounding the lower margin of the submust is notiched in a herma knife and the stiftmus dislated. Reduction is tempted by manipulation, soled if necessary by spoon shaped lever. If the patient can attand fashioned effects of the calculation is flashioned establishment.

After the operation the leg is fixed in plaster of Paras either in the Lorenz or the similary position. The plaster does not al.) include the Loren After to cells the plaster is cut off the still hea are removed and new plaster is applied.

The after treatment consists in retaining the leg in 1 least right angle abduction for air months and polying further casts with alightly diminished abduction for is 1 four months. Walking is permitted after the first six weeks unless extreme blockton to receiver.

In cases with much abortening, in which it is necessary it reduce the dislocation over the upper and back margin of the acetabulum, the thor has despited the acetabulum, the story and the appropriate in the story of the synonial membrane in

front of the femoral head

When the femor fails to remain reduced because of shalloness of the upper sectibility mm person calfap is turned dos. Irom the thum over the apper marps of the actabalum. The percedure is then the same as before except that the capacit is not opened. A curved tenson or made in the person-teum parallel to and 35 m above the upper marps of the sectabalum, curring down behind more than in

front. The percented flap so formed is then turned own with fake of bone. The separations we actived pat beyond the acetabular margin. The reflected head of the rectus is left intered and intered down with the flap. A crescentic bone graft including percenteum the outer compact bone layer and some cancellous mater, is then cut from the docum till intib below the crest, lad on top of the osteroper outest bone flap, medalla to medulla, and fastened: the flap by means of a mail bone per cut for the flap by means of a mail bone per cut closed and but the graft than the contract of Paris in bediction to the percent than no degrees.

Three of eleven openly redoced hips remained reduced. Two showed good X ray and functional cmilts tw and one half to four and one half years after the reduction. The celabulum forming opention was performed on eleven hips. In three the result was astituted by In four there was anterior reposition, in one absorptive arthritis, and in one

relapse. The other cases could not be traced. The a thor beheves that ample excason of the head of the femur through an tenor incaso is the best method for the chef of pain in untrested.

one test meanor for the ener of pain in intrested imperfectly cured cases of dialocatio. Paralytic dislocations require especially careful selection as in many cases the sevents of the paraly

as co tra indicates operation
Toma Mirrowers, M.D.

Stephens, R. Fracture of the Spine of the T bin.

J 4m M Atr 9 3 kxx, 905

The f ct that fracture of the tibial spine is rare prompts the uthor to report the two cases be has treated in the rest six years

The first case was that of soldier 9 years of age whose knee was twisted when he was tackled during football game. When examined by the

thor the knee was extremely sollen, painful, and early motic, and there was almost complete bience of motion. No lateral movement was possible. The X-ray revealed a fracture of the upper end of the tibas with fracture and separation of the tibal spine. Further information regarding this case was unobtainable.

The second case was that of boy of 16 years who as also thrown by a tackle in a lootball grame. A sudden sharp pain and a snap occurred in the left

leg Given treatment for sprained knee, he was unble to use the leg for four months. After non use for a while the knee became stiff. Examination made by the author was negative except for a slight lump Extension was limited about 1 degrees. The \text{\chi} ray aboved fracture of the external tobercie of the third space with detachment of two small first graneries.

At operation, in which U flap with its base upward was formed and patella sphitting incredon and made, inexture of the tithal spine and small homy fragments embedded in the fibrout tasses were found Morement of the lance demonstrated that these fragnents with the surrounding fibrous tissue mass became jummed between the femue and this and precame jummed between the femue and this and prevented extension beyond trodegrees. The masse could The pitells is not settered but the condition as cheed with placeters. He shall be controlled to the controlled to the creatership day. When seek age in a mouth and it in the open too be asked also out a lump.

The cause of fr ct re of the till 1 pr [al] a sever lajure a sociated the lent t i ting of the body. In most see upture of the cracial lightness to cour

The other outhings re follow

fract re of the tabulation is no sales courses but not were it generall believed.

Fra mat may the cover

3 Kuptur (the crucial) greaters is frequently worked

4 IF \) pe sans for the dignosis 5 Cinery t i truent i was lig secresal I in creati cases and occurrenally secres. I in old case

6 I old was ith the king of 1 name oper

t wil indicated

A split put its oper two safford abe best
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8 The fin I result | Luper thou ar excellert la || Cases | Jose Microstrix, M || Letters: G: The Treatment of Dapaytrea's Proture by Screening on the I ternal Malloubs (Ile t a creening fracture of Depaytra permage de la mallou's Interne). Describe the 18-3.

Lecture describes Depay terms fractors as a free time of the internal state down plan. In turn of the blade, a. It is above its malliculus. On the fractor of the fload is often attended and consequently life til server on it a like mortive, proper since of the formers and most and life the fractions for complete reduction. Lecture types open open to a use in beach in substitute to the precision of wires show the fractioned factorial railles as the life in gally if plan ag in it the tilt. Me not if the fload is the property of the analysis of the analys

Nullier 11. An Endescribed Fracture of the Calcasesum (I self terr net). A leasew E. and de la S. se E. m. g. lit, \$ 5.

The thorreported tenses in hydroloculard on the set me of the lateral sortice of the foot and we late dith mode the exchanges. The Year plates in each frustary bound a fracture through the upped the asterior process of the raiseness. The wasta full Loyal L.D. is MD.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

RILOOD VESSELS

Hammer A. W. Cirsold American. What is lt? How and When Can It Be Treated? Med Times 9 3, h, 63

Very hittle a laneau as to the cisology or morbul anatomy of canced ancurson of three as a divergency of cancel and the control of the contro

solated enlargement over a large surgical artery
Factors favoring cursoid aneurom are frost bit
arteritis, and traumatism. Some ascribe the condition to developmental fault in the ascular area.

affected

The process show itself as pulsating meshwork of arterial sinuses from which pulsating casels reduct. It occurs most frequently in the scalp and next most frequently on the face and hands. Its greatest uncalence is between the advent of puberty and adolescence.

The symptoms and signs of this condition present themselves after the disease is well advanced. They michade beligned of the kin pulsation, northousty and twisting of the arteriodes, thrill, and a bruit. Pain is caused by pressure on the cutaneous nerves.

In the fristment arous measures he been tred. These actiode the meeton f boding is teror an astrugest into the mass, its destruction by means of caustic, electropuncture lightion of one or both external carotist and lightion of the common carotis! The last procedure is very danger one, especially in the aged.

The uthor recommends the removal of the growth by excuson of the assuman, and the control of homorrhage by ligation of the afferent and efferent costs. I Transfer Business M.D.

Output and Jeanstoch The So-Called Effort Threshophishits of the Azillary Vein (Throshophishits due per effort de la ense utsurcustom analesco-pathologyes) Ball et man Sec de the de Per 0 3 tile, 5

This article reports the case f a patient a thoost to bercalism, chronic mionacation, or bepetite disturbances, who developed thrombophichits f the anilhary vein after slight certifion. Excession of the veinous agreement was followed by recovery.

Such cases are rare, only bout twenty being known. In the authors case microscopic examination of the excised cin segment showed the lenous

of endophiebth with hyperplasis of the cells of the fatma, a very marked leacocytic reaction, and organisation of the clot. These findings suggest trauma and slight infection. They have therefore great viales, not alone from the anatomo pathological point of vices but also from that I pathogenesis Trauma may cause throubous, especially in those preclaposed, and ery often favors localization in em a bi latent infection. W. A Barrow.

Mitchell, J. F.; Mesenteric Thrombosis, A. Sert. 0.3 lxxva, 200

The uthor reports a case if mesenteric thrombous, or as he prefers to call it, mesenteric ascular occlusion, a digives a brief resume of three other

pun perasted. On the rooming of the second d) the condition was insentially the same except that the belosen sectored slightly full. There was no tenderness, rigidity or dullness at moon of the second day the pulse was no but the temperature was normal. Operation was performed boost exert your boost after the onset of the condition.

Upon the induction of ether anesthesis the particular state of the training and showed again I deep shock, but was revived by artificial respiration. This was repeated or resimption of the anisatietic Saline was then given subcutaneously either was administered from time to time through gaune, and the patient restrained by assistants. When the abdonces was opened, large quantity I shoody find exapted and listaic coil of intestine the lower is not of the interpretable of the measurement of the shoot was think, ordenations and infiltrat of the color of the control of the

For forty-eight hours the patient was in shock but their reacted promptly and convalenced rapidly. Three weeks after the operation she was walking. Three months later she as in perfect health and the nly ill effect was an increased number of bowel movements.

The pathology of mesentede thromboais is essentially that of hiemorrhagic infarction. In 60 per cent of the cases it is produced by arterial occlusion.

ull of it get a meetaterk after. The loop of how I pilettly she occluded exist between agerged in his 1 the II that head as the lime distrated on the think and it with these decisions of the meetate the get get and per the limit of lim

Year ad got as if with a meet a lis rule k tel if ep f ter er bout the r rel there t thing I less pross In man and thereth turned the be-KO I II ing technical to the duto man of the meetalers. I dente it belon labert proce that mental feet at occur til lat ο'n pulput in the directed I profitors I m tred word officies or as befelt d first besser that to be I ted the water to the penionen I m I t I as Il set fe the test feet hours The off team to bid I but tides we flort the boat fe hover constitut more at tin ate on her blist lu he The tempera second in h I i terr but some the orall rai It est liled the pulse becomes smill but I the rout pulse is accompanied bonds or on with I tent power the

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they at report of spantaneous recovers in serpected in all mesentene or linus bidominal splot true in the out ratios. I providure if the symptoms are in t. Die is II fait. If I

key C. Embeloctoray in the Treatment of Circul tory. Dist rivinces in th. I tremities

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The first complet I risk estilal embolication as performed in 191 by they be removed an em-

holes from the ferroral artery us hours there free rance. The second successful operation on those by her.

Key retroit fell some cases from the Lenture has

lading h. n. in there is no case of rea syshem to operat n. preferred after; early kep hou. In t. left the thirt six cases but oper ted upon a time t. only four hours. In terms with each the country four hours. In terms with the case of the the occurred prechase of Tr. erhold this like the recurred prechase to the through two like the restrict throughes well.

tend on the cell were post in the properties of the secured process. The orbid has the restrict through the convert thoroughly post the wholes that the robot has the most thoroughly post the whole and breather the convert thoroughly post the whole the converties that the converties the converties that the converties the converties that the converties the converties the converties that the converties tha

PLOOD TRANSFUSION

Bright 4 L. New Principles 1 Therapeutic Inocellation, Lond 2.3 D. 3.1.4.3.C3 The is a long paper serie ing the Estern of

ther peptic inoculation

The origin 11 tearlin rule is follows. Do essent I prefer many to properlactic processes, it is processed as surely so of the pathogen organism, and this is not undiscovered, of the truth them in it half intendanting about from the

2 The access rout convex of h mg germs, but there must be them ted 1 When appropriated them ted access.

thit is consensation to be remedit product nel moderat clinical action has been extract the unquant mind ted ill not be of mitting important.

4 If creat at mes thould be imply tell rabcut people

t has in tion as applicable only to the infect it.

The protection conferred to the accine is

als apertic i other words protection et ab tained outr age is the species of pathogenetic agent i which the accine cossists. I Protection is obtained fire the lipse of it

a faccination in personal in the meaning a faccination is optimized that the those of the faccination is optimized that the those of the faccination is optimized that the those of the faccination is optimized that the faccination is optimized.

tion period of disc so provided to the incub tion period of disc so provided the incub tion period ha still more the tend of the III has been related the general principle that

In his ben neutred the greated principle that seemes the him of ordered principle such and to be actual tigens that these must be desert discrete the desert of the desert

bance re-incorporated, moculation is followed first by a negative phase in which the bacterioidal power of the blood is red ced, and then by positive phase in which the bactericidal po er may be increased as much as one thousand fold further that when doses which prod the very severe constitutional disturbance are employed, the negative phase is protracted, in some cases perhaps indefinitely and lastly that when doses which produce only trifling const tutto al disturbances re employed, a pout ve phase is obtained without the intervention of any negative phase and the bactericidal power of the blood is very considerably increased fiter an inter val of t enty four hours

When the patient is infected the dose should stand in inverse relation to the volum of the infection

Then follow principles founded upon a more detailed study of the changes produced in the blood by morniation of accines " one and in trips

1 When vaccines in ppropriat doses are dded thre instanta to the blood, whether as ene or neous epophylactic response is ex ked, and the maximal response may be expected after only

abort delay The epunbylactic response in question connists in an extrasion of opsonic and bactericidal elements from the leucocytes. It is mainly by this ectocytic chemical action, and only to an insignificant extent by phagocytosis and internal digestion, that the

battemodel action of the lescocytes is exerted 3 The antibacterial substances here in operation are polytropic in other words, they operate not only upon homologous but also upon quite unrelated

species of bacteria 4 When the effective dose of accuse for intra venous polication has been ascertained, this method of administration, because of its certainty and rapadity of action, at he preferred to subcutaneous moculation

5. In septacemias and other heavy bacterial infections the leucocytes lose their power of responding to vaccines I such cases t is emential before morniating t satisfy one s self that the blood still retains to power of epiphylactic response

6 77 hen by reason of the possoning of leucocytes, activ immunication by means of vaccines is ruled out, the method f mmuno-transfusion should be resorted t in other words, besithy human blood which has made proper epoply lactic response should be incorporated

These data were obtained by adding measured quanta of vaccines or as the case may be in ing bactera, t the blood as a whole or its separate ele ments

The uthor then commiders in detail the nature of epiphylictic response. The epiphylictic response can be evoked in the blood by vaccines it can be evoked both as the and as no t is characterized by sudden increase in the bactericidal and opionic power of the serum and this increase is the result f sudden evacuation of polytropic bact ricklins and

opeonins from the leucocyte When normal blood

is vaccinated as ture with dead bacteria and then tested with living bacteria and also when blood is tested which has been cted upon by antigens on ne the event will depend upon the total of antigen which has been brought into operation in the vaccanating procedure o ut inoculation on the one ha d, and the amaying procedure on the othe

The experiments described brought into promi nence the f ct that in immunication quantitative considerations dominat the attration ant t evoke minuming response in the blood w must employ one particular range of doses when we want t ascertain what has been achieved w must again employ a particular range of doses

Morana II KARY M D

A Vascular Crusis Produced by Con LeCabé. J attriction of an Extramity (Crise vasculo-anguine par ligature d'un membre) Freis mil Par 9 3

I previous experimental ork the uthor dem n strated that construction of an extremity produces very definit modifications in the vascular system which are analogous to those produced in colloidal or anaphylactic shock. These changes consist of decrease in the systolic blood pressure a positive oculo cardiac effex slowing of the pulse, an increase m the congulation time, a decrease in the number of erythrocytes and leurocytes, d inversion of the leurocytic differential count. The same findings occur in asthma, urticaria, angioneurotic cedema and ahmentary naphylaxu

The author believes that such construction of an extremity may be used as a prophyluctic measure to combat anaphylactic shock—in ther words, as a method of desensitization. In clinical cases it has prevented ttacks of asthma, princarial attacks, and anaphylactic shock ttendant upon the miection of antitetanic and a tidiphtheritic serum and neosalvarsan It is believed that th vascular changes so produced occur by reflex stimulation of the vagus which results in a effex slowing of the heart and persistence of the oculo cardiac effer Vasodilation occurs w thin the viscers while the peripheral capil larses become constructed. The latter fact probably explains the leucopenia LOTAL E DAYS. M.D.

Mino, P Research on Variation in Blood Groups (Recerche sella modificabilità dei grappa sanguaru) Riferent med 9 3, xxxix, 75

The phenomenon f uo agglutination of human blood has rendered possible the differentiation of four different qualities of blood Classification in a given group as racial and individual characteristic which is comtant through he and transmitted by heredity

A short time go Eden claimed that he had been able to came change in no agglutination by the dimenstration of certain chemical substances Mimo repeated Eden a experiments on thirty persons but found no modification in the blood group in any R A BRESS

Lectron J. D. A Preliminary Report on Bleed Transfusion in Mainutrition and Infantile Atrepts A. 1 ork M. J. & Med. Rev. 19. 3, Cres., 208

In case of maleutinion and infantih strophisshick do not respond to pedature measures of fail t mak any progress translasion may give an early if or orthe octome. The indextone for translasion are: () Improper assumiation of food resulting in trophy and progress's loss of weight (a) secondary assembs from any cause resulting in maleutintion. (c) circulatory depetition from such conditiones as acri ruttro-intertinal dati blaces with the associted signs i rodings: (i) case of paramit extendings in the control of the control of early ruttro-intertinal dati blaces with the associted signs i rodings: (i) case of paramit exted signs i rodings: (i) case of paramit extendings in the control of the control of any control of the termination in clittle view.

Death may result from hypertranslusion or too rapid introduction of the blood. It is better to give areall amounts, repeated: ten divisit two weeks, than to give a large mount: the first translusion.

The uthor considers the limit of safety t be th-

in c cm to the pound of body weight.

In selecting doors the following conductors are central (i) a negatic of Massermann (i) setting the factory blood creat (j) compatibility of the doors and renginet a blood. The third test should never be omitted. Pemberton states that inlants due clop their was group after t cets. In the cases of extremely ill patients and be in the type ranging of conductal, a crossed hemoly us test abould be made.

The indirect method using citrated blood or the furct method using whole hided in the symmeter that the control of the symmetal comprision and the complex of the supplex rote for transfermon in infants when the uniterest fourtnells in open. The beather, expelling or the infarmal synthesises on may be used. The blood should be adoptimistered evy along The author allows forty I may seconds for each cubic continuence of blood.

Michoy states that repeated transfersions increase the libetheod of reaction. In delytanted cases transfersion seems more persuancity beneficial than ninsperiously should be the favorable results. I transfersion to tumbation of the bone marrow and the functioning of the transfersion corrowcier.

The author's cases aboved unprovement in health with disappearance of the restleament and assume and improvement in the general autonomous formal temperature. The himoglobin increased per cent with each transform and the red blood cells increased as smale as two millions.

Robertson Brows, and Suppon report a mertal ty of 45 per cent in eighty are en cases of mariascus irrested by transfusion, and mortality of 37 per cent in another series of cases treated without and with transfusion Of the patients with college 43 per cent made a complete recovery. In the accord across of cases 82 per cent of the morboul patients died. Witten C. Resert VD.

LYMPH VESSELS AND CLAYDS

Magnos, G. The Demonstration of the Lynch Radicies in Homes and Ashaul These (De Danstellang der Lemphraneli is somelischen und terrachen Gesenson) Denicle Zhe'r f Gr g clare of

Magnus worked out a special procedure the life ing of their input casels with gas, for the demonstration of the smallest beganning of the franch casel system and the source of its roots. Where the personnel absenties on gen as soon as a cosen the contact this framph but not ken it comes take the contact that framph but not ken it comes take with the terrors. The stygen screamshing as the typing he covered renders their mable.

Hydrogen percente ma be brought into contain the hydrogen percent of the properties of the contained through the serious membranes, the augent orygen then excupen par retrograted direction through the stomata. It may penetrate also by diffusion through the material membranes but as these membranes have no stomata and are imperimentals for get, the ong pen cannot excupe in a bedward direction. It tensors such as imperimentals to be discussed in tensors, such as imperimentals on the first of the contained and the strong light and a bisocular metroscopie.

I contrast to the blood casels, the lymph tracts show no constant increase in their caliber but rather arying with, which is especially prominent he there is simultaneous alling of the blood vessels. In the perstoneum they are branched and net him. In the presence of an inflammatum they are expecially distinct. The stomath, on the other band, are constantly large. They represent the beginnings of the lymph tracts from the serous curities II th this method t is possible also to observe the communication between the pentoneum and pleura. Pictures of other portions of the pertopeum show parallel truph vessels, the grange ment of which is dependent on the structure of the timene I the colon, network of luctuals surrounds time con pts

The pupils of the small intestine control control lymph casel surrounded by delicate blood or sell. The subcutaneous times shows de, transplicalymph spaces, of high the connecting times to a certain extent represents the covering. The author decreases also a few protures of the cranes.

In the domain of pathology the are of the mean greate in spina build proves to be hydromentar, which possibly predices the bose clast secondarily. In contrast to a hermal sac, the hypothesets in the hydrocks membrane do not fill up when the find in dropped on them because, as there are no atomain, the current from withou in arrived 1 the all. The conditions are similar in peritoneal tuberculosis The fact that the synovial cav ties of the joints and tendon sheaths are without stomata explains why they are not in olved in generalized ordema. Komaa (Z)

Sistrunk, W. E. The Results Obtained in Elephantlasis Through the Kondoleon Operation. Menuciata Med 0 3, 71, 73

Sastrunk reports the end results of the Kondoleon operation in forty cases of elephantinus. He believes this operation is a definite means of controlling the duesse, although it is not always possible to restore the limb to normal. There seem to be four types of the disease (1) lymphatic or venous obstruction usually followed by hymphordema, the elephanticus probably being camed by invasion of the tissues by streptococci () definite infection through an open wound (3) injury to the limb and probably phiebitis preceding the disease and (4) cases in which the etiological f ctor is not apparent

All of the a thor's patients had had lymphordema bef re the elephantman. If lymphordema is not con trolled it slowly increases, and in certain cases, probably as the result of infection, there is tremendous increase in the fibrous tissue elements of the skin, subcutaneous tueme aponeurous, and superficial lymphatics, leading gradually to elephantiasis. The subjects are prone to recurring attacks of cryupelas, and each of these tracks tends further to increase the difficulty in dramage Emphasis is placed on the fact that if the patient is put to bed with the limb elev ted and firmly bandaged for ten days or longer, the size of the limb may decrease considerably and the thence may become softer. It will then be experto determine the amount | f skin which may be sacrificed without preventing satisfactory closure of the skin edges. The vescularity of the parts will also be diminished If there is low-grade streptococcic infection in the tissues, such pre-operative treatment gives it a chance to subarde

Elephantizats involves only the superficial transes Even in dvanced cases the trames lying beneath the aponeurous are normal Because of this fact Kondoleon concerved the idea of connecting the deep and superficial lymphatics by the removal of large amount of aponeurous, the skin being allowed to drop down in the muscles. New lymphatics and blood each then form and connect the two carenda tions, the deep circulation thus druning the stag nated lymph from the superficial circulation technique of the operation as performed by Sistrunk n as follows

A long modified elliptical incason including the skin to be sacrificed is made on one aide of the af

ferted limb. On the outer aspect of the leg this incusion extends from the crest of the illum to a point a little below the external malleolus of the fibula In order to facilitate wide removal of the subcutancous fat, the skin is reflected on each side of the messon for a distance of about 3 75 cm. The skin is then retracted and underneath each of the edges

long messon a made through the ordematous subcutaneous fat down to and including the aponeuroare These incresons are made parallel to the original skip incision and are connected at their upper ends by transverse messon. The freed trans is left at tached to the underlying muscle by the poneurous By traction on the freed tissue the poneurous is easily dissected from the muscle and removed in one long piece containing the skin ordematous fat, and aponeurous Bleeding vessels are temporarily con trolled by hiemostats. After removal. I the tissues these forceps are taken off, surprisingly few of the reside needing lightion. The wound is closed with interrupted alk orm out autures, without drainage It is usually necessary to perform similar operation on the opposite side if the limb. The incision for the second operation extends from the extreme upper portion f the inner surf or of the thigh down to a point little below the internal mallcolus of the tibia

If good results are not obtained by the first opera tion Sistemak believes that much is to be gained by the conti ued removal, if necessary of thickened and deformed areas. These repeated incisions remove much diseased trans and allow the formation of new blood vessels and lymphatics which assist in draining the effected limb

Because of the considerable shock which follows operation in extensive cases the advanable to operate on one aide of the limb only T diminish shock the patient is given /6 gr of morphine before operation. and after operation is given treatment for shock The patient should bandage the limb for an indef inite period after operation. If the limb swells con asterably in state of bandaging, he should go t bed,

elevate the limb and keep t firmly bandaged if increasing attacks of esympeles develop after operation, streptococcic vaccine should be given over

long period. Sistrunk believes the failures of this operation are

due t the fact that the surgeon did not observe the principles outlined. The patient should clearly imderstand that the operation is being done to control ducase which if left untreated, will grow progressively worse and that afterward it will be necessary t keep the leg bandaged for an indefinite period

Of Sistrunk forty patients, thirty binined good results and the rest were benefited

GY NECOLOGY

UTERUS

Hirst J C and Maxer C The Palllative and Operative Treatment of Prelapse of the Uterns Am J Obd & G sec 93

For several years the uthors have not regarded diabetes as contra indication to operatio. I any case of prolapse the bulk of the discomfort is due to two factors the or truson of the cystocele and the associated back and displacement of the terms If these can be corrected the nations will be made comfortable. Therefore in cases in which the cevix was not too badly diseased and asy prolonged operation was much mable the authors have done an interposition operation under local anasthena Thus can be performed paralessly and quickly and at once corrects the cystorrie and the retroversion Nothing is done t the versix or permeum. The only pain a felt hen the ut rus is pulled dos for the placing of the auture and is negligible The aniesthetic used is o giper cent novocume solu tion with drops of 1,000 dremship to each ounce. This is infiltrated thoroughly in the space between the bladder and the uterus. The peritoneuro when exposed, is infiltrated separately

The pallents, treatme t is used only for putients who refuse to consider any form of operation, ad yet demand some relief from their constant discomfort, and for those whose are preci deaths possibility of operation. Before any form of persury can be employed ulcerated areas must be healed, process consuming from t to foor weeks Rest in bed, the enoperation of the patient, normal sait solution doughes twice daily and pointing of the obserated surface with mirrat of silver solution every forty eight hours ar all that is peressary. The patient should be told the meter of her condition so that she a like passence for he time required for

rehef Occamonally the prolapsed mass as so large and ordenatous that I cannot be carely replaced. The vagina-the so called irreducible prolipse I soch cases the patient is placed in the knee hest posture nd the man a surrounded by hot ton b for ten to aftern minutes. It is then possible by process of texts, bule the patient is till in the knee heat position, to replace the aterus cand

Oper its treatment should also is be recommended unless it is contra judicated by the patient age of by disease

gran mistake to perform abdominal or It B agrical hysterectoray for prolapse unless the uterus as so discused as to mak ta removal im perate. If hysterectoms is necessary boxeser t must be followed by as careful and catent e plastic work on the terror nd posterior vaginal

walls as if the uteres still remained. The uteres is the best possible support for the retention of the protruding cystocele no other structure, arther the broad legiments nor the vagnal fracts, will saturfactorily take its place

A properly performed please operation is no - y militates gainst subsequent childburth Recurrence need not be feared if the patient is given proper care

in her confinement

The interposition operation described varies from that o Watkins in that the split varies leaves a caught is back and pear the urethra this needle armed with No 3 chromic catent. The needle passed through the anterior wall of the uterus about is in below the tubal marrisons and then through the fascia on the opposite aids. This does a still the the extreme a teversion of the utierus caused by the typical Wathins operation. When the stitches are tied, the pterms is lifted look up belond the symphy ses, and in this manner bulging of the oterm and anternor wall. not incommon rause of failure in the Il thus operation, is entirely prevented. Three or four annular stuckes are then taken each a lettle lower than the one preceding, and are left instead

If the patient is of child bearing go the back m ca ght about one-third of the distance from the urethra to the cere t, and the seedle is peaced through the anterior all at the point here the peritoneum as out and through the lasers of the opposits side. A second statch is placed below the first. The terms is then left as an intraperstonce! organ and the can't through buch the hinder had prolumed a closed

Of many hundreds of operations of this type per formerd in the past twenty years the thors know of only are high failed. These ere chefly personal failures. The most difficult cases of prolapse to care are the recurrences following illadvised hystoric tom; C L Coronic MD

Arms, I Monstruction - An Inquiry lat Its Etiology Am J Ohn & G na . . .

At the present time Frankel' theory that the curpes luteum at the responsible factor in the cassation of menstruction, a the theory most generally accented.

Against this theory the thor cites briefly to very instructive cases which were recently studied in the G necological Department of the Mount Sman Housetel

The first case as that of oman i years old who as dmitted t the hospital October Menstruation began at years and thereafter oc curred orregularly at intervals of fit to eight weeks The periods lasted from five to t elve day and very profuse. During eleven years of married his

the putent had given birth to five children, the last oct 10 year before her admission to the hospital One and a half vear ago folkwing a period of mecorribus of an months, the begin to bleed continuously. After two months the was currented. She then had a period of anescorbors of seven months duration succeeded by continuous becomes the months and the seven months of the continuous becomes the properties of the continuous becomes the continuous period to the continu

Europ for a moderat existo rectocels and a signful learned cersur, the ply and examination as negative. A histerectocy of a haldered ashpage opolymerctomy or performed. The term as normal in size but the endometrium was piper paints and offendation. The order paints are presented in the endometrial paints are painted to be a size of the endometrial painted to the endometrial painted to the endometrial painted in the painted to the endometrial painted in the endometrial painted in the endometrial painted in the painted in the endometrial painted in the end

cysts t 5 mm in diameter Careful examination

failed to reveal any corpora futes The second patient was admitted to the hospital Her family and pa t history were Menstruatio bega t 3 years appeared regularly every four ceks, lasted from four to six days, and was very profuse. During the past t o years it occurred every t to three cels and had become much more profine. Physical examination excelled interms that was simplify enlitted and left cyatic ovary about the size of a plum. On April left salrange cooborectomy and partial resection of the other overy were performed. The pathologics anatomical findings in the ovaries ore simils t those of the first care. N corpora I tea DOMAIN L CONTIL M D could be found

Blacker, G The Treatment of Menorrhagia by Radium Laucet 0 3 cm 4

Radium has now been used in "ufficient number of cases of memorrhaga to warrant conditioned as to the claws | cases untable | uch treatment and as to the results. Three types of cases is commonly treated |) hemorrhage to the memorphage (a) hemorrhage du to swill fibrades and (s) hemorrhage in oung omen with no sagns of general or local threase.

In case of hemorrhage the time of the menopower relians as certain in it results hatered to the bleeding. In cases of filtroids to its should be limited it tumous not larger than the terms it the fifth month of pregnancy which are not complicated by decase of the appendix do not cause pressure, and do not markedly prept into the interpro of the etterns. It should not be enployed for inhumerous manors because of the danger of the etterns of the growth. Something and would be supplied to the product of the local disease should be treated with a disease the half of the product of the product of the may be produced. If the harmorrhage cturns, the procedure may be prepeted.

The technique consists of careful examination, reploratory currities to obtain scrapings for microscopic examination the introduction of the tube of reducing the funding of the uterus, and packing of extern local can I and vagina with guize. The exercity has been formed to cut of all beta and softer gamma rays. The millimeters of lead and 30 mm of rubber are employed in emanation tubes, and 10 mm of rubber are employed in emanation tubes, and 10 mm of rubber for reducing the millimeters of the full reducing the millimeters of the millimete

The verse dose in the treatment of hemorrhage of the menopause is from coo to a soo me his lor fibroids a repetition of this dose may be necessry. I the cases of young women the amount should be maller it as deared i produce only a partial or temporary menorrhors. The term in lagram hours provides far that not create extremely the produce only a partial or temporary menorrhors.

mate of domine

Radium should never be introduced into the uterus when there is a signs of inflammation of the genital tract but in carefully selected cases its polication

is free from danger

Complet unenorrhors may follow the treatment unmediately. In ther cases one of two excressive loses occur before complete amenorrhors is obtained. Mirror in patients of the menoprate such as flushing usually flow the complete resisting of measuration. Not inference the excressive bleeding occurs atoms to the contract of the practical operation of the practical operation of the practical operation of the practical operation of the contraction of the practical operation of the contraction of the practical operation operation

servations would be necessary to establish this fact. Of seventy seven patients treated by the a thor nine cannot be triced. Of the remaining sarly eight thirty four were treated for hemorehage at the menopause it enty three for fibrods, and eleven for simple beamorthage. The average does was from a,000 it ,000 mc has In thirty three of the thirty four cases treated for hemorrhage at the menopause complet amenorrhose estilled. In fifteen, it began immediately in eleven effect one period and in seven first.

50 t 3,000 mc has In antern cases complete assencerobes followed the treatment in the authorities assence of the self-energy in three, after one period and in three after two or more periods. In his cases accord application was necessary. In five cases accord application was necessary. In five cases according to the self-energy in the treatment was unsoccessful or only partially successful. In six of the eleven cases treated for simple hismorthage complete amonorhors resulted after one of more periods. The done wasned from one of the case in the account of the case in a controlled a case the accessive loss the periods as a controlled. It is cases, his ter-ectomy was performed.

Amenorrhora following the pphosison of radium is due! the effect of the radium on the granfin (1) licks of the owners. There is also some local de structive effect on the microsa of the uterus. Recur rence of the periods is associated with the maturing of fresh grantian folicies. The abrushage of fibrooks is due to the context of the meanquister rather than the direct effect of the radium upon the tumor. I the classe of young omen who have been treated the radium pregnancy my occur when the periods return to some an abrushal abrus

Kouwer J B Radietherap) or Surgical Treat ment in Fibrems of the Uterus? (Radiotherapse des fatones de lutéus on trusement hirurgical?) G néc et shu qu. 1, 183

T supplant surgical interference any form of nonoperative treatment must give better coult or must be simpler in xecution and give rights as good The a thor objects t the use of radiotherapy for fibromats of the uterus because () it destroys the physiological function of the ovaries, () the terus is sterificed. (3) it institutes a radical form of therry for a pathologic condition which in the majority of cases ca not be accurat ly disproved before overation, (4) it may produce necrosis and guarantene (4) malignant degener tion cannot be excluded, (6) it is contra indicated by inflammation of the adnex Uterme hemorrhage occurring t the elimacteric often masks the presence of a will developed on cinoma. Radium or \ ray therapy should never be employed for the relief I such harmorrhise unless the absence of carcanoma has been demonstrated by пистовсори: ехимилация LOTAL E D VIL M D

Schmitz, H. The Treatment f Carcinoma f the Uterus, with Special R ference t Surgery the K Ray and Radium Assisted We 9 Lrus, 7 Curative treatment of carcinoma of the uterus

Curative treatment of carenous of the uterus requires the total removal of all neoplastic times Success depends on correct designous aid the extent of the lesion. The cases are grouped as

Localized carcinom neoplism confined t the uterus Borderline carcinom neoplism possibly in

vadi g other tissues
3. Inoperable carrinoma demonstrated invasion
of other tissues

4 Advanced carcinom Irozen pelvis, marked cackeria or dist at metistares

5 Complicated carcinoma associated grave constitutional discuse

Localized careason as treated by pashyatered towny. The virguni rout in y be employed when indicated. The Retribution operation of its operative mortality of ct. y get cent is one reach in the chance burgery in borderine cases results in an arterior of the contract. Confidence is surpoil, treatment of the resultance. Confidence is surpoil treatment can be re-established by operating only when the growth is confident to the uterial.

Groups is to 5 contra indicate operation and unfortunately constitut. So to 90 per cent of the cases of neoplasms of the terms entering the choice. Of the vanous methods employed in treating bot define and moperable cervical carrimona, radiums. and the X-ray have received more attention than any others. The success of radiation therapy da pends on delivering to a deep cervical caronoral sufficient ray to destroy it without permanently traumaturing normal v tal tissues. The technique de petuls on (i) the intensity of the rays of ramanant the \ m; at various dist oces on physical bear. () the erythems dose and (t) the lethal curement dove. Graphs to given showing the Visy intend. ties by continueters, and of 50 mgm of radium at **x** 1 these are combined, giving the sammation intensities, and upon these graphs are repenueposed di grams of cross, nel surittal sections of the pelvis si various conditions treated. It is possible by these methods to destroy deep mahenancy without caus

mg permanent many 1. Sormal vital tissues. The subjective relief the local healing the fixe year relef and the absolute curs absolute desterment by means of a follow-up is selem Takkin are nor abovang the number of patients treated just by year and the outcome. Of toop tents with cervariances who were treated from 19410 o 3. When he are they and well today. In fifty arms cases the contract of th

incorporate steer are poor to treated the curs as beary manage or years. Nation forms. From cone to 1000 seg.-his ster gr ease that hormest. From cone to 1000 seg.-his ster gr ease the curso property of the authors warms guarant seems of supposed or other messores following fairly successful relations and grisant the report too of the relation, providence. From these to egisters months as required after full relation of dosage for the crite fully to recover from the effect and if the treatment in regard.

ith irreparable damage my follow. We bregat to perspect the support the support that the support the damage to the support the support that the support the damage about the the support the damage about the support the support that the support the support that t

The article is summarised as follows

Cervical carcinomata should be grouped for

prognous and treatment

* Carriel statuster should be kept t setablish
the efficient if the treatment

1 The following rules are established () Localized caremons should be treated by pushysteric testy () Borderine and moperable case should be treated by combined full does of radium and X tay (s) Advanced and recurrent cases should be treated publisherely ith radium and the \lambda-ray

4 Radiation therapy should not be preceded or followed by operation

5 Repetition of course of radiation therapy is contra indicated Atomirus J Lazere, M.D. Mahle, A. E. The Morphological Histology of Adenocarcinoma of the Body of the Uterus in Relation to Longevity; a Study of 184 Cases. Surg Gines & Obil 9 3, xxxv1, 385

The ather reports 186 cases of carcinoms of the body of the uterus from the May Clinic An t tempt was made to prognosticate the malignancy or the mortality of these cases on the bess of the cellular changes MacCarty a standard of cellular differentiation was employed. The tumors were grouped into four types. Grade 4 represented the most malignant type of cell, with practically no differentiation throughout the entir tumor Grade t comprised the early cases in which the curemons was extremely small and the cells showed high degree of cellular differentiation or approximation

f the normal type of cell The longest duration of symptoms was in cases of Crades and 3 the longest wage duration of symptoms was in the least malignant cases, those and the shortest erage duratio of of Grade symptoms in the most in lignant cases, those of

Grade 4

All patients with Grade mahanancy are still living. hile those with Grade 4 milignancy are dead. Seventy-five per cent of the latter died of carcinoma Of the patients th Grade malagnancy 71 70 per cent are still alive while of those with Grade a malignancy only all co per cent are alive. The mortality due to carcinoms in these two groups was 62 of per cent and 74 9 per cent. The number of patients who are dead as well as the number of deaths due t malignancy increased directly with the degree of mahanancy

Abdominal hysterectomy was performed on 16 (73 per cent) of the 186 patients, and vaginal hysterectomy on forty five (24 10 per cent) percentage of postoperative good results in patients still living a slightly higher among those subjected to bdominal hysterectomy while the mendence of recurrence is alightly higher in those subjected to

vaginal hysterectomy

The thor draws the following conclusions The more curve the carcinoma, the shorter the

cluscal symptoms

The shape of the lemon prears to be related to the degree of cellular differentiation, the more mahamant the carcinoma, the less liable t m to assume papillary form

A caremoma of a high grade of malignancy grows larger and invades more extensively in given length of time than one of a lower degree of malig nancy Lymphocytic reaction appears more marked in the groups which show higher degree of mails DARCY

The chinical diagnosis of carcinoma I the body of the uterus a possible before curettage or hysterec

tomy in 40 per cent of all cases

A series of admocarcinomata of the uterus can be so classified according to the degree of mahamancy that the ultimate postoperative results will vary in direct proportion to the mortality of each group

ADNEXAL AND PERI-UTERINE CONDITIONS

Geist, S. H., and Harris, W Experimental Investigation of the Value of the Various Commercial Ovarian Extracts. Endecrinology 9 3

One cubic centum ter if preparations of corpus luteum, ovarian substance, and ovarian residue a as myected int groups of castrated rabbits every third day. From fourteen to eighty five days later the animals were killed and the pelvic organs, thyroid, advenals patentary gland, and mammary glands mere removed

in all cases the uterus showed atrophy. This was less marked in the animals killed early than in those Lilled later. The mammary glands also were trophied The p tuitary gland did not show much change The thyroid, of the injected animals ap-peared somewhat enlarged. The adrenals showed areas of necross and fatty changes.

I the injected animals there seemed to be a distenct loss in weight as compared with the controls This may have been due to an increase in the meta bolic rate resulting from changes in the thyroid

It would appear therefore that the injection of the several commercial preparations is unable t prevent the strophy following castration in rabbits. The cervix is not involved in this process

H W Floor, M D

Wels, H. A. A Contribution t the Study of the Effects of Redium upon Rabbit Ovaries. Surg Gyme & Chat 9 3 ETEVI, 373

M mry is quoted as taking that a dosage of 600 mg hrs of radium has no influence upon the small erasian follicles. In the author, investigations be used 600 mg hrs of radium because it is believed by most authorities that this dosage applied in the human uterm will produce permanent amenorrheea,

result generally regarded as due to the destruction of the maturing grashen follicles. As a rule, 50 mgm. were used in two 5 mgm tubes, screened in such a manner that only the gamma rays were employed The tubes were fastened as nearly as could be determined directly over the rabbit ovary Fifty milligrams were used for twelv hours or 100 mem for six hours

In nine rabbits the right overy was removed, the left overy was exposed to the rays, and the two were then compared microscopically. In seven rabbits the right overy was rayed and then both overses were removed Finally both ovaries were exposed to radium and the rabbats were bred after an interval of six weeks. In no case was the radium more than

K in from the overv

The author describes the structures of the normal rabbat ovary in detail in order to distinguish between normal atrests and degeneration which might be caused by radium. He then gives the detailed histories of eighteen rabbits. The findings are summarized as follows

r. In none of the overies was any change noted in the single row of germinal epithel im after expowere t radium.

a There was no elence of obliterative endartentus

 Six ovaries showed no change in the connect timine cortex but ien showed an increase in the number of rells in this area

4 There was no ev dence t prove that the ovand maturing granfian follocles had been flected. It is certain that the oung tid early muturing ovwere not harmed.

From these in extigations the conclusion in draw in the dosage of too mum in not radium has no situants determined. Bett upon rubbit on resemble region to conclusion of the situation of the sit

EXTERNAL GENTTALIA

Dougal, D. Primary Carcinoma of the Vagina Frigited by Hystersvaginectomy. J. Oks. S. Grace Red Law. 0.1.22 M.

Oper Red (m) 9 1 25 18

Notined, F. A. Case of Primary Concineous of the Agina. J Ohn Science Brd Last 9 3 222 40

Stevens, T. G. Squamour I pithelisens of the Agina J Ohn Science Brd Last 9 2 222 4

Spencer H. R. Adenors of the Aginal Peruta Importation Concer et the Cert J Ohn Science 1 16 Cert J Ohn Science 1 2 10 20

Spencer H. R. Adenors of the Aginal Peruta Importation Concer et the Cert J Ohn Science 1 10 20

Notice 1 10 20

Notice 1 20

Grace Brit Lap 19 3 22 44

Primary cureasons of the ragina is rise. The age twice, it occurs is somewhat later it is in that of milipiant growths of the cervic. The irrisation of perature his bee befored to play a print in the evolution. It is most common at at the perturbation of the distribution of the common at a the perturbation of the common at a the perturbation of the common at the perturbation of the perturbation

married somma 4; veri of age to had boreceptic children, the hist cight years previously. She had never some peasars. The complaint was bleeding on cotten for the past as mouths and more recently a blood stanned ordering. She had no pain and her general condition was good. Examination revealed finable plaque his growth for computing

the upper I othirds of the posteror wagoal was and extending almost I the posteror knot the covic He growth as coval is shape with us long use critical, and prepared to be freely morable it operation, practically the time agma the scene and the preod give were removed. Excurely use and the preod give were removed. Excurely use that here no recturesce. Meroscopically the trave was tyrical equation of II composed.

Holland's patient as comen 46 y are old he had had four children and was still menutrus or regular! For the past is months be had had an offensiv a tery blood stained discharge and for the part to months good deal of hemorrhage but no pain I ramination revealed hard, circular raised and rough friable growth on the upps. third of the posterior vaginal will. The growth scered t be til localized. Under storaine spenal anesthesia the girt and the uters, together all the pel se ellular tissue and shae hymphatic glands ere removed. Histologically the growth preved to solid trabecular squamous nd horny celed curcusors of the agust Four months after the operation there were no evidences of recurrence compared to term old po Stevens patient was had had one child no muchmare and as test entering the menopause for t months there had been bloody discharge. When seen by Stevens the patient complained of pain in the pelvis radiating dow the legs and sense of weight ad pressure She had one penary for number of years but not during the rest yet. Upon examination large circular flat and fairly Il localized nodular growth as found on the posterior agenal all At opera tion the aterus ad the upper t thirds of the gins ere removed. On histologic evarianation the growth as found t be a typical aquamous eratheliona

Spencer nations as oman of central and had had to child on and one macarrage had been sdow for t enty fiv years and had suffered from intermittent harmorrhages for arveral years. The menoprime occurred in cars previous). There 14 no pain lagrani remeation rescaled a britise growth as ligness turge duck egg kach actuly filled the varing. The tumor was regular on the sariace and resembled proliferating caronoms of the cervis. It was erv early broken arms the the forers and found to ares from the ginal wall by pedicle t the fornix The cervix tself as normal Microscopiculis the growth percent t be brough advocate In spat of thes, box ever the p tient as given further treatment ub radium She as ell and free from symptoms the ad hilf years later II II Fr. MD

OBSTETRICS

PRECHANCY AND ITS COMPLICATIONS

Welz, W. E., and Alles, R. W. A New Measurement as an Aid in the Disgnosis of Rachitte and Generally Contracted Pelves. Am J. Obst. by 83 Grace at thors opinion the measurement of the In the

pelvic height is not only more easily determined but also of greater value than the measurement of the

conjugata externa of B udeloque

The patient is placed preferably on her right side in the exaggerated Sims position. The left leg is fiexed about 120 degrees with the body and the patient instructed to relax all the muscles of the leg One point of the pelvimeter is then placed firmly upon the tuber uschu and held by the left hand of the operator while the fineers of his right hand seek the highest point f the crest of the drum the other point for the measurement. The tips of the pel oneter are then depressed to bring them as closely as possible to the bony landmarks. One centimeter is deducted from the reading to allow for the thickness of the overlying tissue

When the measurement is so cm or less ough internal examination is indicated. I the uthors series of twenty five rachitic and generally contracted pel es, there ere two in which the pel ic height was box 95 cm. Outlet contraction and funnel pelvis show no definit alteration in this diameter E L CORVELL, M D

Oastler F R and Jacobs, H G Report of Case I Texamia I Frequency with Acute Yellow Atrophy I the Lever Am J Obs & G; ec 0 1

The patient was admitted t—the homital October th the complaint of omiting, severe beadache dizzinesa, nd pam in the lower part of the belomen on the left nide. She had not men strusted (seven months. For the rest as weeks she had noticed that her feet ere swollen. The pam in the lower belomen cam on cutch while she was at rest and radiated t the back and the left iliac regio. At the onset the patient fainted. Later she became extremely thirsty and estless and slept ery little that night. The next morning, ten bours prior to her admission t the hospital bleeding from the aguna air hunger and atreme thirst began

On her admission to the bospital her general con dition as er poor the as cyanotic and gasping for breath her toneue was dry and furred, and she h d violent busdache The temperature as degrees I' the pulse so and of poor quality and respiration 8 There as no punched The general physical examinatio of the heart and lungs was Abdominal examination revealed con

aderable general soft distentso with marked tender ness the left lower quadrant. On pelvic examina to the external genitals were fou d t have purplab has and there was moderate bleeding from the vagina. The uterus was somewhat enlarged and

soft The cervix was soft and showed bilateral The cervical tag caused sharp pain in laceratio the regio of the left broad ligament. No masses ere felt in the region of the dnexe but the left ude usert emely tender. The blood count showed hite cells 25,000, polymorphonuclears 80 per cent, hamoglob a 7 per cent. The blood pressure was or 70 On the right thigh was a large subcutaneous

hemorrhize A tentative diagnosa of ruptured ectops gestation was made and laparotomy performed immediat ly under gas and tygen energibesis. The uterus was found to be enlarged but the t bes and ovaries were

entirely normal. There as nothing in the abdomen to account for the localized tenderness and distention. The bedomen was therefore quickly closed The next day October 3, 19 the patient ery marked in adice over her entire des loned body Her temperature was 11/2 degrees I and her pulse imperceptible. She remained in the state of delirium which set in immediately after the operation. Clinically her condition was more critical

than the day previous and the diagnosis of toxemus. f pregnancy was made. The prognosis was very grave The blood pressure as 5 70 The cervi as then dilated and the terms emptied under gas and vygen anysthesis, and irrigated with salt

solution. The pathologic report confirmed the diagnous of pregnancy Chemical examination if the blood on that day

showed are 50 mgm uncacid 3 5 mgm creatinin 5 mgm sugar 143 mgm combining power of the blood plasma 40 vol. The interus index was 187 As the patient was unable to old catheterization

was necessary 5 cm of data recommended this urine t 5 cm of dark reddish urine were contain blood, many epathelial cells, numerous hyshne and granular casts, and hale

The next day the jaundice was less marked and the urme less highly colored. The temperature was 00 5 degrees F and the pulse on The patient

complained i salts test in her mouth There as no vomiting

Clinically there as evidence of improvement but the laboratory findings showed that since the last examination all of the clinical elements of the blood had increased. Of particular importance as far as the outlook of the case was concerned was the increase in the creatinin content. There were only t findings which suggested the possibility of improvement (1) the increase in the combining power of the blood plasma from 40 t so volumes, and () a decreuse in the laterus index from 187 t

On October 16 the general condition was about the same. The temperature had dropped to concern? I but alternate delinean and corns still persisted Compilint w. made of considerable pain over the her region and there w. m. fred tenderine it palyatation over this are. The jaundace was lightly, more marked.

On October 15 the general condition as f as odd be determined claused he as better 1 care 1 transmission of the union revealed the presence of lexic and 15 roass This, together at the presence of pain and technicaes in the right hypothemican, tecniting, delarms does now, pend examination, suggested to retus of programy high the three red destruction as n teems.

high the liver destruction was ry tensus. The extreme rait of recovers from this condition and the f ct that the patient eventually recovered and is still alive makes t still more difficult t establish defauted the underlying pathology in this instance.

The porral treatment consisted in the administration of large doses of alkales by mooth and by rection, rectal crugations and the administration of glucose softened by Tumph drug, and of general repairing in the control of the cont

The laboratory findings alone straingh that it the owner there was retention of all the autrograms products. The most marked as that of the ores the next marked, that of tree and and lens marked, that of creation — E.L. Commun. V.D.

Petersen, R. Tomenias of Pregnancy Inchaling Pre-Ectampsia, Ectampsia, and Asphritis The Indications for and the Methods of Artificial I recruption of Pregnancy J Vacin

per Mark W. Sec. 9 g. rm, 44

A plantu. Acut nephrits at a rare complication
of pregnancy. Whatever its cause—exposure t
cold, prosoning, or contempost diverse—the patient should be treated conservat of un-bed and
saled over the saute diverse of possible.

If appropriate method treatment is of no all low se'er and the nephrits as becoming progresserely one as shown by increasing albumin and easts in the urne, assaying, beart more one t high blue pressure, etc. the sterms must be empired by the

method causing the least shock.

Chronic nephrits: The determining factors t be considered in arriving t decision for or against the

artificial interruption of pregnancy are the security of the kidney levon at the time of the occurrence of pregnancy and the progress of the discue under treatment.

When the oran is tided over to the period of the hilds viability the pregnancy must be raterapted at the earliest period compatable the viabil ity because the danger of interference—the placesal, circul toon resulting in separation of the placesal, fetal de th, and gra—meance—the hile of the nother

icial de th, and gramenace t the his of the mother becomes incrusing i greater as term; proached. Ed. mp. is: Eclampite serures are the to provaing brought on by the presence of the large team ing brought on by the presence of the large team.

ing brought on by the presence of the luring field, the there is closer, as the feter remains in the uterus, found will be formed taken the process can be combatted by methal treatment. If the fries can be removed without too great tream sed the posteon limitated, the patient if a recover III the patient in occurs the control of the patient in occurs them the treatment be mediatal to oversit or oversity or before the treatment be mediatal to oversit or the patient of the patient of

Pre celements: This is a condition in which laboratory and limited tests alone an introduction such bad fair to go in convaluous angless to make

emrded

When, in spat of treatment, the albuma and
casts in the imme and the blood irral forease. Let
the blood pressure rises, and here the ansatzs
headsche, and er a symptoms become more pronounced, the author does not hespite to carpor the
treatment of his hard more and headsche, and
the control of the control of the carbon to the control of the carbon to the

sections, and to a simple occurs never poposition, the author does not bestate to early the attent and he has never regretted such acti. Itratment.

Hithele of artificially interrupting preparer in the internet. If it is decided to emply the attent to as the lift of the mother before the age of value.

I of the f to, the recthod chosen should be the case beth difficunt the least should the p text, how concluses — I metalt poor becrose of the text is brought board or againstead by the preparation of the products of conceptions: I be presented and ceretrage. If it is also products of conceptions: I be removed by this necked quickly, and theorough if then the certain strong an anterior by secretory about the document of producing the operation in an attempt to delike the text of the conception of the product of the conception of

It must be borne in mised that any operative procedures upon patient profoundly posioned as the result of non-elimination rus be followed by separ-Therefore more than ordinary care must be taken to obtain sucress.

I the second half of pregnancy the type of operation selected for emptying the terms all dependmon number of factors maternal and fetal

In the case of multipura the acrusty dilatable cervit, manual distance terminated by cross or forceps may be indicated. In the case of primipura, better cerults will follow alcommant or agust hysterotomy. It must be borne in misd that the team is apt to have a serious effect on the fetus, and that therefore prodoped manupulation from below.

may cause its death when it might be sa ed by ex traction by the bdominal route

In the presence of convulsions, abdominal cress rean section is the operation. I choice unless the both canal is camly dilatable and extraction is easy t is the only procedure if eclampus is complicated by contracted pel is If t were performed more often, before or soo after the first eclamptic conulaton, it a ould se a greater number of mothers

and babies than my other method

conclusion the thor tates that each case must be judged by tself consideration being taken of the degree of intoucation the condition of the birth canal, and the size and condition of the child If the child can be sa ed by certain type of opera-tion thout prejudice to the mother this should be CARL H DAVID M D the operation of choice

LANOR AND ITS COMPLICATIONS

Harrar J A. Functional Dystocia in Normal Petres Recognition and Management Am JOhn & Gymes 93

As the impossible to define prolonged labor in units of time in an individual confinement tis better t pronounce a labor prolonged or delayed under the following conditions

When there is primary mertia a th ruptured membranes. s When, despit good contractions, there is no

dvance in the cervical dilatation or progress of the

presenting part. 3 When there is advance with increasing malposition

4 When, due to the causes cited increasing tonic spage of the uterns develors with continued

secent of Bandl a contraction runs 5 When the mother or the child shows signs of

exhaustion

If there are sever pains th rigidity of the cervix the first stage, the use of morphine and scope lamina is frequently efficacious in controlling the mother's suffering and preventing nervous exhaus tion while the cervix dilutes. A constant observaturn in the use of scopolamine for t ilight sleep as the slight terms effort required to effect smooth and raped delatation of the cervix. When the mem branes are intact and dilatation is alon freeing of

the membranes for several inches around the os all keep the case under control much better than their runture and should be go en trul first, but in the cases of multiparte simple rupture dontting three t four fingers and good effacement of the cervix will often be followed by prompt deli ery

When there is primary mertia th runtured membranes and the cervix ill admit only one or fingers and is not effaced, packing of the cervix and upper vagina with grove is usually of greater aid in softening the cervix and inducing good pains than the use of bag

Manual dilatation is safely effected only in a cervix which is fairly well effected, and even under

these circumstances there is danger of tearing and hemorrhage unless merely a remaining rim must be

reamed out. If delivery is imperative and the cervix is effaced and dilated to admit three or four fingers but still too rigid to dilate manually without tearing snipping with the scussors on either side is of great and before the use of forceps, and is especially to be thought of when the aftercoming head catches in

the cervix

When dilatation of the lower soft tursue funnel, the levator an margin, and the progenital septum becomes necessary the author is inchined to prefer manual chiatation with plenty of lubricant and the repair of such small lacerations as may be super imposed Epimotomy he restricts to cases in which tearing into the rectal sphincter is imminent, or the child must be instantly delivered.

Pitmirm should not be employed before delivery but as frequently indicated for the co trol of post partum bleeding before the ergot can exert its full

When the child's head is it or above the brim the thor prefers ermon to the use of high forceps Potter has last emphasis on the combined dvantages of certain manceuvies in podalic version and breech extractions the details are not new but the combination results in an excellent delivery. Vermon competes with high and hard median forceps, but ther is not 3 t prepared to admit that t competes with low median forceps or in any w y with spontaneous delivery

The most frequent and most commonly unrecormixed cause of delayed labor in cases of normal pelvis as failure of rotation with permatently posterior

pontion of the occuput, Of \$,160 cases of recognized posterior occlout only 433 (5 per cent) required artificial delivery

In delay due to posterior occiput interference is warranted when there is no advance despate good contractions, and when, with advancement, is an increasing extension of the head. In such cases the methods of choice are ermon with the head above the mulpelvis or manual rotation and forceps extraction with the head below the midpelvis. Molding I the head through the brim is not a contra indication to eraion if the terms relates sufficiently under complete anesthesia to admit readily the passage of the hand and wrat through the retraction

Complete Scamponi rotation of the posterior occuput 1th the forceps is dangerous procedure m most hands

There is undoubtedly definite field for cresarean section in cases in which the haby is over-sized, in cases of prolapse of the cord and long, poor di lation if the cervix, in cases of non-engagement in a buch there is a topic uteres and a h o baby and i cases in which a previous stillbirth resulted from dystocia although the relationship of the child and pel a was considered normal

EL CORVER, MD

Harper F T Clinical Aspects of Blood Loss in Indoor Am J Ohn dr Gymr 19 1 11

The practic of measuring physiologic loss in ounces has bittle t commend it If the limit is los for instance from 4 t 6 oz every large woman deinered of a 9- or 10-lb child and losing from 8 t s or of blood within few minutes would suffer from postpartum hemorrhage. As matter of fact, boxever the blood lost represents efficiency on the part of the aterus in establishing hemostasis at a large phrental sit On the other hand, if the limit is placed a few ounces higher a slender under posts bed. d ansenue oman losing 6 1 8 oz having no more than ould be considered physiological loss when, in terms of her alality to stand it she has had a mild hemorrham

With the exception of assor personal injuries, postpartum humorrhage is the most frequent rom plustiers of parturition. The residuous with which this view ill be accepted depends altogether upon the reader's exception of physiological blood loss is in the a thor's opinion, physiological blood loss is ecceded and kemorrhage obtains ben any un

necessary loss is austained regardless of amount. The hemorrhage is external when blood flows from the uterns or leaves it in clots, and concealed when there is a progressir increase in the size of the postparting uterus. The one fudicates an un-

physiological blood loss as definitely as the other.

Because so many cases of harmorrhage are due to
muscular musficiency and hecause the latter con
dition is so often preventable, the prophylactic

treatment outweighs the cu treatment Prevention should be begun hours before a possible blood loss occurs. This should consist in () sa ing the pitient s general strength by keeping her in hed while sets. Salor 1 is progress (s) preventing prematur and meffects forts at bearing dow (3) artificial supture of the membranes when dilutation is ourte complet and d ance is impossible because the bug of ters does not runture anontaneously (a) limiting the time that frequent propulsis second at ge contractions are allowed t continue ith little or no promise of eventual spontaneous delivery (5) termusting labor at a time when efficient contractions can be supplemented by traction from below and (6) removing the contents of distended bladder or ectum which may reflexly inhibit satisfactory sterms class at the time t is needed. These measures are urged in order that at the end of the third stage the uterus all not be exhausted

Unspectionably, the con leacence could be more standartory in namy cases if expulsive efforts or suppliers of the construction of the construction

a allable if the uterus is allowed t continue to foeffect il expubit efforts too long

The extent t which the posiparities alone insecularly insefficient, it will fail to reposed to stimulation. Further it next be borne in smit that stimulation of tirrd interest does no sear this exist it to increased flority which it cannot minima, and that he in the latter are off, the dyree of iosafficiency is increased. Photology critect and respectively compared to the properties are required and the stimulation of the stimulation of the properties of the

When efforts a sumulation has falled to enter the uterus to activity it is apparent in the original is unable? respond and that further administration of drugs or the application of measures depending upon latent muscular efforcacy? a compilar results are contra indicated. Under such carrys attances from laten uterus temponade in necessary

NEWBORN

E L COMPUL ND

Still G. F. Attacks of Arrested Respiration in the Newborn. Land 6 2 CO 43

The mbor documber tripled case as follows. The subject is an unitant is even hours or each old he has given no cause for analyty. The labor per his was normal, there was no suphyma at hints and lound harden colored or pile h very subject and breathing again, and by the time the physician arrives the raliant is lying placifly shown good color and in breathing anomally. In one hours, and the properties of the laboration of the colored color and in breathing anomally. In one hours, the color of the laboration of t

ca not be restored and the infant does In the fix cases observed by Still the age at hich the attacks began was respectively about 16 beauts 164 beauts, 264 at a class and 5 days. Infants it is these there's no no necessarily feelbe or poorly notwished. The infant which had them first when it as 164 beauts observed whether the thirth and the infant shorth old weighted the thirth and the infant shorth old, 54 fix at both and 6 the beat the state of the poorly in the and 6 the beat the state of the poorly in the art of the observed and successful the tertual to one Decessary asserted.

The progrous scena to be very unfavorable, only one of the suitof free patients recovered. The is fant's presence in the intervals between the tacks as decept. The sudden and beoluter sched onset of the atticks must be borse in much in essential that the tacks has been entirely been for some time. It by moneting artificial respection in) be the only moneting artificial respection in 10 to 10 miles of the one of th

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Deaderick, W. H., Syphilis of the Adrenals. Am J. Syshiliz. 033, 78, 7

Luctic leasons of the adrenals in congredital spatials are not rare and in recent years have been frequently lound 1 analogy in case of argumed spatials. The marked authents sometimes observed in the course of spatials has been attributed to incite unusuon of these glands. It is possible that the benefits derived from the use of adrenals in the treatment of reactions following the unjection of advansan indicate the presence of such leasons which are unsuspected

Syphia of the admais was recognized pathologically especially in herelitary syphials, before any clinical cases were reported. Lancerstant and Various conditions more more than the size of the admain this condition. Barrengrung found these structures mixed by masses of modes and young connective usage cells. In 1869, virchow and Hecker described genumate of these structures. According to the condition of the co

t Barrensprang and H ber the suprarenal capsules are considerably swollen, hypersenue, and beset ith small white granules or milian, spots the size of poppy seeds which traverse the cortical substance in the form of radiating strike. These master are composed of mades and young cells. Ribadeau-Dumas and Pater studied the suprarenals in twenty cases of hereditary syphilis and found them affected relatively frequently. The conditions included simple hypersmia, congestion with infective nodules, scierosa, atrophic and sometimes cellular changes, sumple sciences, gummata, and sciencegummatous degeneration. The treponema was very frequently discovered in these structures Marshall and French tate that evidence of inherited syphiles has been found in cases f infantilism, dwarfiern, gagantism, my xordems, acromeraly expolitbalmic enter and Addrson disease and cases have been reported in which these conditions were benefited by antiluetic treatment. The adrenals are enlarged also in acquired syphilis of the visceral type

Another straining characteristics of the adrenals in chrone spidula is married approximate the context hach is found in many of the context hach is found in many case. This may be patient amyloid degeneration of the drenals in not moom. In congenial spiblic movelung the parenchy as the sparchets public in moving the parenchy as the sparchets public in present in large numbers. Exchort states that so their times the culcular or carcinoma, in other organis, antecedent spiblic, supportation, or they waiting deachings may suggest that the adrenal bodies are involved by tuberculosis, accurations, guinanço or anyloid degrieration with consequent development of Addisson with consequent development of Addisson diseases. According to Remain, Addisson's disease.

as usually due to tuberculous of the adrenal glands, and m rure instances to syphila, shrosis, or tumor Abatracts are given of th Instones of cleven cases showing the Addison syndrome in close relationship to symbils, but with a decided lack of uniformly

favorable results following antiluetic treatment.

C. D. Horana, M.D.

Ziegler: Experiences in Pneumoroenigenography of the Renal Bed by Rosenstem's Liethod (Erfahrungen mit der Pneumorositgenographs des Niereslagers nach Rosenstem) Ferticks d Geb d Resetzenstellen a. 1. 22. 55

In the method described, the point of the needle less within the fatty capsule between the posterior surface of the kidney and Zackerkandl's fascia, and the oxygen is allowed to spread only within the latty capsule. As rule, 50 to 400 oc cm will be found sufficient. The use of a medified Brawer pneumonants is preferable to inflation with a syringe. When the position of the needle is correct, the gas will distribute the fill in mechan and a lateral

direction from the kidney simultaneously. This procedure makes it possible to see the kidney as easily as the heart. His entire surface may be studied, and on obbique transillumination any changes in its anteness or posterior surface are clearly revealed. The interescopic reporting allocation won-derful new of the relation of the kidney to its surface. In contrast to probagately the method consideral in contrast to probagately the method that the contrast is the propagate of the method makes the contrast to probagately report to the fact that obliteration of the fatty capsular makes it impossible to surround the kidney with gas may be of value in the diagnosis of conditions formerly recognised with difficulty. Ganzana (22)

Neuwirt, K. The Treatment of Reflex Anurus (Em Bentrag zur Therapse der Reflexamuse) Zitzler f mes Cher paz, zz, zz

This article is begin by betrivitions on the most vation of the kinder by the sympathetic and vagus nerves. Only in recent times has any emphases been also upon the secretory influence of the nerves upon read function, an influence demonstrated by the fact that every cell of the renal timbles is surrounded fact that every cell of the renal timbles is surrounded fact that every cell of the renal timbles is surrounded there is no surrounded to the contract of the conmotor there or against the contract of the contraction of followed by polyman due to pacify use the visaconstructors, and stimulation renal in contraction of the blood visuals and oliquing.

At the present time, the vagus is recognized as a nerve promoting secretion and an antagonat of the splanchus; nerve which imbalts secretion, but the activity of the nervous system is evidently that of delicate regulator as the demerrated or reim planted kidney continues to function for a long time The rifer influences I which the trend function is nighter an author of Territion is decreased in the product of the kind of artifation of the stills here or trutter. The fine trensition of all the stills here or trends in the stills here or trends of the properties of a trend and further or of the properties of a trend and further to or the properties of the still after trephers toop, many pador for an ita or district out where all through refer pain (the real trend where all through refer pain (the real) trends trends the squarement of the splanches correct and the trends the still remove on sides the other in the land, and assumed to the squarement of the squarement

No urt II min di determine the effect of the place is tere topon the renal lar topo into alla passibilities trained and the renal large topical passibilities and the place of the place of

OURC I

A ref s n is 3 logaria re produced by purn of the cent excels and refer installation of the sometor across of the kilner at these in pulses re rised only by the planch is nor d on the kilner at the stimulas conducted in trail the relosation from the kilner.

not in hite par I said if the curies of the amotor t interrupted by splanchoir anartheus Consequent! the said toy effect post he said function must disappear at the lador on the land or those following out hateriuptess of the ser-

The ather tested the theory in case of referof germa. I reacutes fire aertheliction of both spil author correct they can of a pre-test twocaine addression sol tion the severe collecty pains are greatly releved, and fire an additional is may test and created enterly. The associated function tested enterly. The associated func-

hich had rea bed 130 cm during the previous t any four bours rove 1 2 5 cm in the ne t fourteen bout This track had listed for son ad one half days not a peopleted by the uscatteration of alone 1 onnoth later 1 concretions ere passed during another track

Is order (make sure of the effect bil teral nesthetizat m a done ber me the diagnost as not brobately ert in theoretically nilateral exthest ould be been soften: 1

Additional observations and experiments must determine better sql others matthew is important mean of tre ting nephrolubinal and better improvement of the discrets is 1 br is needed in refer observation or satist. I was (f)

Vanderiloof D and Haskell, C. C. The Relation of Acidosis t. Nitrogen Retention in Expert ment | Northelit Seeds H. J. 9.1. | 19

Previous experiments post dogs porsoned by methyl alcohol showed the tember there for quently reduction in the alkah reserve of the blood, the degree of usdous and the severity of the inforcation del most also yn sury in the name durtice. I critical beitsacter of learner or failst poissait, the alliais reserve was found to re und as a high mensional bert if this try about the defended the detail at the contract of the contract of the contract of the table reserve as accompanied by evidence secure that the about a subsequent too tred.

In experiment with mercenic chievale power as it we protect that though there is reds us of the shall never. It is related impredient a comparison with the increase i the too poster alterest of the bland. It is will recognised that come draftle domaget the remail structures and prevent libest leading to an appreciable retester of the interest in the bland that is the crease and the late it towers occur relatively like, see the bland paratonical hanges in the barders.

The results obtained by the authors seem to re deate that in some cases I least the acidous rit tropos life for the accrest of the feteraction b) methyl alcohol or mercura chlaride. Not suh a the reduction of the alkali react relations with in the log name but explorer of renal damage ou be obtained before there is any decrease it all ri th alkale reserve had ben the reserv alkale kept to high les I he the tra enous rejection of and are becarbonat bittle effect seem to be zertel on the course of the possening and the impairment of enal function furally reduction of the allast resers through starvation and the distintinted of divise he drocklory and though falls as great to that seen unly in the course of possening by mer cure chloride does not lead to retrotton of mirearm such as occurs in the latter prodution The athors believe the time certain cases of mit

cure chloride peaconag, sodom becarboaste liér, p is wedes and that alsee great ette a extraved in he later cost injectous serves. Change or even supposed cares al colous about the reserved to only when it has been defauted, aboven that there is a reduction of the reven shall not the planna, and even the ord or retail administration should be preferred it beautic more support, or Care 31 Po-

Meden, H. Tuberculents of the Kidney and

Nephrectony (Nerestaberkules of Separek torale) Zinder f and Chr. p. z. ps. The question of the tubercules t estment of

t bet alwas of the hadney high berretofore prepared undexacted each high prosonanced general labelloss in a socialted original and the first the factions of the other kidney, and in the first timent of rabercalous of the bioduct following

acpherations) has again been raised. The renewed recommendation of consert in treatment stimus I ted as in estigation of renal tuberculous i the Jean Clune from or i 1970, with regard to the value of functional disposes and postoperath results. Conservative treatment instead of operative treatment is justified in cases of unilateral disease provided it is possible contantly to determine the retrogression or ad ance of the condition. The bladder findings are not a reh ble indication of the extent of renal disease but are decine e in indicating

conserval e treatment.
With regard to the value of functional tests the surbor states that in many cases ureteral cathetensation as a impossible because of bladder charges, a distortions of the bladder powers the certain observation of the curretion of conservation of the kidney Nieden also beened cases in which talked completely periods of normal curretion of cur

Wouldo favor conservative treatment for cases of a berulous of the bridges, such are dispared by enthetreation of the intege, which are dispared by enthetreation of the urriers, the finding of briefly, and the presence of pederaphic changes in the writer and the renal pelva. As borderine cases be regards those as which the dels), in the extreme of die is at the that of the potential size. He beloves that if the does not improve, in to to three months, heparectomy is undeated. If the a their sopmon, the extremtion of diges is not of puch great significance morrower the diagret it the second kidney during the two or three months of waiting is not to

be disregarded

If the repart to the end results in cases of opera to the treated tuberculous of the kades, beefen reports on the est, two cases of uninternal disease and one case of histerial much remost four of the former are excluded from the discussion because of other conditions. Of the remaining numeters pricingly, we can are deed, and of the tail to others,

secred have survived the operation for mice year. I only two of the mil trull creek as the description of the curls at the section of the curls at ges, the rest above of the curls of the curl mouthal included (curters deaths 1 from mr an one from supportant permicutats, and one from general infection. One of the cases of urrent as the case of bullstrail descure. I the other the resulting lathery above of fatty degeneration without the rection.

In 1 o case in which death occurred sense time, after operation (relevan and 1 ext letter nominal liter operation (relevan and 1 ext letter nominal respects, b) the cause of death could not be distributed by subseque (examinations) on an ver of letter on and one hill any 1 all, there was considerable improvement in the general condition but in 1 cyst its was found. Needen natures the tump of the unter time most frequent cause of per sustence of a festable according to the method of

Kuemmell, in an opening separate from the openative wound, so that it can be treated secondarily. In five cases the bladder as mpions completely created but in these there was no users formation in the bladder before the operation of the remaining four cases, in which bladder symptoms were present, in aboved no bladder changes previous to the operation. Therefore in there cases disturbances in the course of healing could be attributed to the stump of the unter.

The question as to shelber conservative measures other than tuberculin treatment—such, for example as sun and light treatment (Kisch)—offer a better proposes, the author leaves unanswered Recently Harrass has reported that tuberculons of the kshey and testicle do not respond to beliotherapy

Muller G P Abnormality of the Kidney Pelvi with Pyonephrosis. Surg Cl A in 9 3 m,

Multer reports a en unusual case of jouned pelves following septimentomy and nephrectomy of the right kidner, persustent firstals developed with in termittent discharge furne One year later the patient deed. Autors showed the pelvis of the left kidner to be full of per containing times and to exited behind the sorts and ena cave to the right wide where it communicated with the final to.

Pyelograms would ha cleared up the diagnosis previous to operation, but the patient refused extansin cycloscopic in estigation

The diagnosa was pyonephrosis on the left side with communicating enal pelves

C D PREERIL, M D

Grauhan, M. The Anatomy and Gli Ical Aspect of Epithelial Neoplasms of th. Renal Felvia (Zar Anatome and Khmi, der cyttleballen Neu bildingen des Netrobeckens). Desirab Zische f. Chr. o. 2, cture.)

Forbial tamors of the tentl pelvas abox as papillar afracture. As rule they are multiple large tubor defines these tamors as growth degrees tumor of the epithelium of the effects in immay passages which develop in predspected tissue as the result of throat irritation. A precular characteristic of the epitheliul neoditisms of the renal pelvis as there is not the result of the epitheliul neoditisms of the tentle pelvis as their control of the tentle pelvis as the result of the result is the present tentle pelvis.

The secondary tumor formations in the meter and bladder may be due to implantation metasticans a multilocalar origin growth by continuity and dissemination along the lymph tract, or retrogrand transportation. The solid and parameter cell orbits had cancers speed by containing from the had cancers speed by containing from the private the serier but only the appearance previous of the series is factled. The simultaneous affects of the lower portion of the series in factled. The simultaneous affects of the lower portion of the series and the series of the following the series of the products of the provided of the series of the

The resul parcecky may presents the pict re of a sly droughtoric contracted kidney. The preclusion is also droughtoric contracted kidney. The preclusion is a finite contract to the clusted picture of temperate the picture of the three pictures of the picture of

Nephrectons must al)s be supplemented by treterectons

Four of the utbor cases are reported

Handley W. S. On Subenpuntar Pyelotomy, with Remarks on the Origin and Treatment of Remai Lulcuit. Proc. Ro. Soc. Med. Land. 0, 1, 201 Sect. Surg.

After brief decrusion of the prehability of occasional calcular formation in c.) in the renal cortex, the attemptored to a critical strategy of the differ in methods of removing stones from the isidace. If then describes in detail the operation of subcapility prehomory in performs it. His method differs from the ordinary prehomory in that flags of capales or dwested up therein the prima said be not the formation of the control of the con

The operation described a sa performed in leven cases without the formation of initials or other serious complications. In sew of this fact and on acrossit of the free access afforded, the thor recommenda it as the preferable procedure in the removal of kidney stems.

The article is ellaborated and is supplemented by three selected case records

JOHN O CHISTR M, M D

Lichenson M. The Diagnosis of Valignment T more of the kidney (Zar Drignosis der mitigen Nerentumoren). Ziede f. Leel. 9. 2014, 147

Malgrant tunors of the kidney occur most frecently in the first year and the fourth and fifth decided of life. From the practical standpoint it as sufficient to differentiate between hyperspektruss, curciouss, surcous, and malignant endryouse physician physicians and stalling and endryouse. By presently The harsorings is correctly to one analy The harsorings is correctly in the cormore rarely 1 children than 1 while the first eral harsorings is due 1 secular econom by the young morphisms and the 1 ter hieroritage is necroid of the tentor.

Although tumor formation is the most certain

sign in the datenois, it is not demonstrate and itself the approximate of comparison are produced to the prosent of peop of tennor trans into the case the pressure of neutraless open the https: and blood characte. Symptomatic varacteris brings is this arrow of a paptorn. The nost interests measurements are those of layer-replaced, small belong the produced of the production of the loose. There are usually necessarily the production of the loose they are usually necessarily the production of the loose that the production of the loose that they are usually necessarily the loose that they are usually necessarily the loops that they do not committed to prevail the loops that they do not committed to prevail makes they also the committed expertances.

In discussing the diagnosis the other adheres to the Royang classification of cases of real great

terni temor

Group 1 Cases with terror and hematicit. In three the diagnost is easy but the condition would be absured As furctional tests are as little avail unless considerable amount of pure chymn has been destroyed, prefography peer perstoccum and pneumoradography of the real pelvis are of erest importance.

Greep 2 Cases with palpable tomor betwithout hematurus. As a rate the relationship of the intertor the kidney may be determined by the method complicated but in some cases exploratory operation.

man be becomeny

Group at Cases with hem turns but thout
tumor. These are the most difficult to disprious. If

tumor. These are the most difficult to degrees. If pollution fulls, the killary must be exposed and, possible must be split. Regarding the auture of the tumor the author tates that, because of their metastases by we of

the happy pusages carcinomata frequently cases as approves of congression. Hyperarphrocusta metastaure by w y of the blood stream. Large size of the tumor does not contra indicate

Large airs of the funor does not contra moreax operation, but firm adhesions to the surrousdamp percent percental operation

The terroit operation of perfections comes up for considerables. The protoperation executed assume a sustain a sustain and an account of the protoperation executed assume a sustain and a sustain a

The athor is es in tabular form operate, and final results obtained it the I realifort line.

James (Z)

Price II T Urinary Calculi and Sarcenta of the Listury in Calledren Pressylvane II 1 925, 2001 335

The other states the to the diagnosis of the all ments of children not refinent. Iteration is paid to the genuto armary tract. The same of newborn belies may contain crystals, and daming the first versi of a child's life as attack of other may be caused. by the passage of sand in the unnary truct. The author cites eleven cases of stones in the bladder or kidneys if young children.

The mortality from sarroms of the kidney in children is high Of five children with this condition who were seen by the author only one survived operation for a few months. The following conclusions are drawn:

The prevention or cure of pathological conditions of the semito-uninary tract has not proved as suc-

cessful as desired

Calcub should be discovered early after their formation in order to prevent serious suffering or death

The fact that calcul may quickly form again abould be borne in mind I some cases this is the rule

The early cure or removal of the source of infection of the urnary tract is sometimes impossible. The \(\text{ray}\) is the most aluable aid in the diagnosis of calcula.

Cystoscopic examination was made in a few of these cases but the diagnosis was mad before this

ambitance was obtained

I four cases of sarroms in girls no definite ctological factor could be determined. The only streams occurring in a boy was probably of trau matic origin. James A. H. Macore, M.D.

BLADDER, URETHRA, AND PENIS

Crompton, C. R. B. Partial Spontaneous Inversion of Diverticulum of the Bladder with Dumb-Bell Stone. J. Leel. 9 3 us, a83

A case of partial spotianeous inversion of a divertrashmo of the bladder with the connected occurtories of dumb bell stose is reported. The patient had passed multiple retail stone and complained of containt pain in the permetim which became more intense effer politing or taking and was recompanied intense effer politing or taking and was recompanied to the partial partial partial partial partial partial too re-called a bladder stone fared to tumor mass which was resured from the bil dider will. Op-

phoreton of the bladder the tumor mass proved to be small de erculum almost completely averted to be small de erculum almost completely averted by ercorphe granulation for every the actions of the percorphe granulation for the small by ercorphe model shaped stone as found in second to a the per of the uncrited dortection. The intention of the small shaped stone is a small shaped and erciculum, which as 3 cm in diameter was dissected from the wall a this enserge.

T ent right cases of concedent bladder tone and diverticulum ha a been treated t the blayo Clinic In review of the literature the thor was able t find only fiv cases of dumb-bell stone

liepburn, T. N. Obstruction t the Ureteroresical Valve. Surg. Gynec & Obst. 9 3, XXV. 168

The uthor discusses in general way the elsology treatment indi prognosis of obstruction t the uretero-cascal wai e, gives batracts of fic cases, and includes in his article pyelo ureterograms above ing the condition

This obstruction of the ureter may be due to spasm of its own circular fibers: this mouth of of those of the bladder will Every cystoscopist has noted that at times the ureteral os may contract

noted that at times me writeral os may contract to pale dumpled how which cannot be catheterized Again be has noted that the catheter may pass the obt is clamped in the intrimural portion by a spasm of the bladder. When one writer has been eatherterate before the bladder spasm occurs it may be impossible to catheterize the other one and a hen to determine the functional output from the non-cutterized side, it is found that there is no output of winner from this side. Often pain is such urster will suggest recal pathology requiring perherctiony when the kidney is normal but is functioning into a urster temporally closed by spasm at its outlet

Occasionally the so called reno-renal reflex may be set up by a stone in the intramural portion of one wreter the urne passing this without difficulty but the ther wreteral ordice in massin causing renal

dutention and colic.

In certain cases of obstruction of the uncertorescal valve there may be a congenitally structured on which at times may be completely closed by the muscle surrounding t. In others, in which there is trabeculation of the bladder wall, a cordal leano due to spinhis or other cause may be the ethological factor. The author believes the majority of the cases come under the heading of spasm due to fatigue or nervous exhaustion analogous to spasm of the lower end of the cropolagon, the palores the alcoccal valve, or the same. The attack may be precapitated by the passing of urnitating urns, in-

lection small stones, or crystals

During the accete paus morphia and heat are necessary. Complete rest in bed is indicated until relaxation is established. If the speam continues long enough to cause pe elistic, immediat supra public unknown into the bladder abordle be done, and to the referred shifted with sounds. If the ureters are widely dilated and pyelitis and market periodic production of the control alves in advantle. If the distriction of the control alves is advantle if the distriction of the control alves in advantle, the distriction of the control alves in advantle in the distriction of the control alves in advantle in the distriction of the control alves in the substitution of the control and the surface in the from pure and the hidder pinceton is good, the treatment should consist in criting the musicle down to the mucous, the sphincter being left intact.

results of the operature procedures suggested are problematical, bydro wreter bydronephrosis, infection, stone formation, and destruction of renal parenchyma will develop if the obstruction conparenchyma of the obstruction continues.

Hirst, J. C. Th. Rapid Cure of Cystitle in Chill dren. N Lori M. J. & Med. Rec. 9.3 CX-14, 261

The treatment advocated is described as f llows
The child is placed in the dorsal lithotomy
position and its knees are held—part by an assista t
or nume

s Occasionally ameribes: will be necessary be case of the child's intralinest, but not because of a y pain caused by the manipulations. Light ether or chloroform ameribed is all that is necessary and ten a few accords each;

for a few seconds only

A small soft rubber catheter is boiled and in

serted int the bladder after prope prehimmary

4 The urine in the bladder is allowed to flow out

5 h regation of the bladder is accessive 6 Through the catheter by means of a person values 5 cm of 8 r per cent of sixol or ground of solution are sected, the catheter being then quickly stadds.

7. I most cases the solution off be retained from fitten indight at several bours. The younger the child the shorter the retention. L. on it he solution is passed at once however sufficient will remu

In most cases the result are immediat. The tensemin promptly ceases, the frequency of the tion dimministen or cross and the high mechately becomes comfortable and quiet. If the vimptoms recur or the unite does not promptly the the infection may be repetted. If the cases of girls of 6 or 7.

th cyritia of long standing and ith occasional exacerbations, repeated injections are often necessary but in the seate cases, expectall if no time habeen wasted on improper treatment, the result are prompt and satisfactory.

The age of the child has no bearing hatever on the practicability of the injections. The arethro of female child is suprainagly distantible as is. Il known and no difficulty will be encountered. The other weed the method, though trouble in the case

of an ufant one month old CROCROTIL MD

Gorack The Treatment of Tuberculosis of the Bladder (Behandlong der III senkeberkulose Lerkandl & Kong Russ Che Petrograd 9

In Fledwore's clinic and in the jubber princile practice there has not been sample we of tuber culous of the hilder thour renal t berculous Therefore the treatment was 1 dn, ted sheet fow rid the flected kidney 2 75 to do per cent of the cases, arghirectomy as followed by bestime the hilder These for the tuberculous process in the hilder These

ere cases also mg carcumacnoed t betwaless for the author designates the condition as tober calculated the bladder and defined the receious dacase of the bladder as subservations syntis 1 cases of the bradder as tobervations syntis 1 cases of the bradder as tobervations and the subservation of the bladder as to the bladder as to the bradder as to the bradder as the bradder as the bradder as the bladder as the procession of the bladder as the procession of the bradder as the

In the discussion on progrestal tuberculous following this paper. Choboff claimed that in the rare cases in which fire properly carried-out replier form the toberculoris of the bladder does not do appear spontaneously healing may be obtained in the contentions and allowing the bladder consistent

side cystotomy and placing the bladder completely t rest

For the diagnosis of 1 bercalous of the histoperiod recommended this injection of the 15 cm of strucof struc-int the dedocumal cs. (6) of games point foot subcutaneously) and sucroper after tes to 1 he day. If the struc-creating the price at 10 le form the entire periodic man and the price at 10 le form the citize periodic man and the price at 10 le form the diagnosis may be made reach more quotified to the diagnosis may be made reach more quotified to the diagnosis may be made reach more quotified to the diagnosis may be made reach more quotient to the diagnosis may be made reach more quotient.

7sigmend, F. A Cave of Hamorringic Purpurs of the Bladder (Leber cases 1 II on Purpursual Research and Purpursual Research 4 at his

Person (0)

After reporting a churacteristic case the author ducurses the proper application of the term "pur The cheerse t buch at be pura of the bi dder. The diverse thick at be longs to one in high harmaturus occurs without an previous warning or fire only a slight indeposition a moderat rise in the timperature and shight, if any disgree With the exception of the blood and alberts nothing nathologic is demonstrable in the strine. On existorerpic examination, however to t dark bros hemorrhagic spots are seen on the normal attecous membrane which resemble the harmorrhagic spots in the skin and micross men brane in const tution I purpurs or senter. The term purpurs of the bisider can be polied projects only I those cases in but there is general involve ment of the blood casels (purpose hasnorrhaged scurve et) I or cases in buch the inflammation of the bladder mucous is responsible for the ecchy mose, the term hemorrhagic cystistic should be used

F it) extoscope examination is of the greatest importance even has the hymatima is very shight. The treatment is directed against the constitation I base discuss. Rest and suit ble deel are also indicated. As Long viz. (2)

Smith G G. The Tree ment of Caucer of the Biodder by Radium Implantation, J. Uni. 9 3 15 7

The implication in blubble cancer of larte tube of radium casalation of low potency or of radium bearing needles of 5 mgm ach ill cause complet necrous I the tumor provided the tubes or in seried on part of do placed that the either periphens of the growth is brought than reach of may I telhall power.

Curses of gross the are partiable for this treat, the bases of lack bare enant tool tables must be based of lack bare enant tool tables may be deposited by intraversal methods, and () sensitive currentees to ethic bases of large () nature growthe destroyed it is the existency tato which radium my be implicated through superspaches extractory.

It is inadvisable to bring bout the necrosis of tumor more than 3 or 4 cm in diameter as the absorption of toxims from the infected slough is pt to

prove fital

In treating cancer of the bladder by this method the problem is t use enough radium to destroy the cancer but not enough to injure the patient. A number of cases of cancer of the bladder in

A number of cases of cancer of the bisader in which the growth could not have been excised successfully he shows complete chinical disappear ance of the growth following the implantation of radium C R O Chowney MD

Buarger L. A New Method of Applying Radium through the Cystoscope. J. Ursl. 9 3, 12 27

The purpose of the method described is to obviate the necessity of lea ing the cystoscope in position during the time of radium contact. The equipment needed consists of special radium needles and pyloactors for mearing them into the growth, which can be used through the author's operating cystoscope or radium cystoscope.

scope or radium cystoscope.

The construction of the needles and applicators, the technique of introducing the needles into the growth, and the removal of the applicator and cystoscope are described and disstrated.

This method of applying radium is applicable to the treatment of carcinoma without surgery treatment preliminary to surgery and the treatment of

metastam Hrvay L Savroud M D Corbus, B. C. Diathermy in the Treatment

Corbon, B. C. Diathermy in the Treatment of T more of the Lower Urinary Tract J. Ural 9 3, IV, 103

In describing his technique the author tates that dathermy is the piphcation of thermic properties of lipolar currents of very high frequency and low tension (d'Anionval current) as distinguished from the high tension unpolar current of Oudin which currouses and inseens heat pretertant

The effect desired is cooking through of the tissue to be destroyed by deep penetration of the current w the a comparatively low degree of heat This produces an acquire death, a scaling of vascular chements, and subsequent formation of sour tissue.

I heat coagulation of bladder timors through impraphase opening the time introduces the electrode through glass speculum and controls the degree of heat penetration by a thermometer in the rectam or vagans. The bladder is closed with Penercutheter drainage to allow remspection and an opportunity for second application of distillently in case of recurrence: H L Savycon, M D

Petroff, N: Resection of the Urethra with Mobilhation and Suture in Geatricial Strictures and Firtules (De Reselmon der Hanrockie mit Mobilecture and Nahi bei Nathenamitaten and Fatchs) Arch f Min Clay 927 COM

In every case of cicatricial structure of the urethra in which the use of bougues is not sufficient, resection of the structure followed by suture is preferable to

any plastic operation or free transplantation because of its certainty and simplicity

In the years 1920 and | 921 the author operated on eleven cases with defects varying in length from 1 5 t 7 cm and in one case with defect 2 cm long The last patient, who was affected with multiple sonorrhoral fistule and suppuration, died from sepers five days after the operation, but all the others were cured In the cured cases, in which there was no after treatment with bougles, a stricture (fold?) was demonstrable on subscopent examination with a bourie nly once, but the patient was able to unnate without difficulty and in the other cases the arethra remained patent. However, the author was able to follow his cases for only three or four months At operation, Petrod made a temporary supra pulse bladder fistula for the introduction of a metallic catheter by way of the bladder in searching MARWEDEL (Z) for the stricture

GENITAL ORGANS

Horn, W. and Orator V. Hypertrophy of the Prostate (Zur Frage der Prostatishypertrophie) Zischr f Path 9 min, 340

The others attempted to determine whether hypertrophy of the prostate is true tumor formation or a compensatory hypertrophy and to discover the anatomical origin of the glandular nodules. For clear understanding of the anatomy the following

groups of glands are distinguished

1 The mucous glands of the crethral mucous. The submucous or paraprostate glands which extend to the muscular layer and full into three groups () the glandile paraprostates generous core group of Jores, which are embedded in the docual ends of the methral subvest the collicious seem nais and at the fundes of the bladder (2) the glandule prostations mediates, which be at the side of the collicious seemanals, their ducts opening on the lateral wall of the methra, not (3) the glandule prostate the modern collicious consideration of the method of the collicious collicious seemanals.

3 The true prostate glands, which he external to the inner spinicter of the urethrs, are surrounded by miscle fibers and are to be classified, according to their position in relation to the colliculus seminalis, into the prespersion (crainal) and the retronales.

spermatic (caudal) group

With regard to true prostate hypertrophy in which two types may be distinguished—one with enlargement of the merhan lobe, and the ther with enlargement of the lateral lobe—the authors state that on the basis of serial sections it has been demonstrated that the conduct usually responsible in hypertrophy of the upper and middle groups of abmurous parporatate glasds menhosed. In certain case, bowever the prespensate true prostating that is made to concerned in enlargement of the indicate only in the production of the properties of the properties of the product of the middle lobe and the retroopermatic true prostate glasds in enlargement of the lateral lobes. A reliable

conclusion is possible however only in the early times before accordant perforations of the limiting

musculature has e occurred

Falargement of the lower entral group of praprostate grands in any et unknown, but the entreprostate grands is any et unknown, but the entrebeller such a condition is possible. Mention its made of Sammond a hypothess that the podulesforming the basis of prostate hypertrophy are caused by proflectuate origin ref in borone from the testile to review atrophed prostate tasse. In the others opinion bowers the added on an ord less are tumorous problectuates. Their proposal to drop the trim prostate hypertrophy as made ding and to use unstrad the term addroins of the marginostate relands deserve attention.

Force (2)

I on Borza, J. Adenoms of the Accessry Glands

Buige-sting Prestatic Hypertrophy (L. ter den Bilde der Prestatabypertrophe auf reiende Adenome der akreworischen Drussen). Finde f und

In the normally des loped dult the prostate cight st 1 m and consists half of ginnd these and half of nuscular and connectit instead the first and an analysis of the prostate sets in bettern the most time and entirely seen so get At the same time an enlargement of the peri methral gland begins The latter are of cutodermal origin and de clon from

portions of the oiffian doct

The protate less caternal to the sphaneter his accretory lands are within 1. In the so called hypertrophy of the protate, it is never matter of entragrament of the prostate, it is never matter of tumor like proideration of these often extraord annly enlarged or multipled groups of gitasis. Such a group of glassis removed it operation is seen at comest of a farge number of individual moduler ranguag in size from that of a pe head if that of lease or haselinest. These can be separated by a blant instrument and silicost the use of force facts processed to tumor and appears as as capsule. After the operation, hen freed from periode After the operation, hen freed from period in the operation, hen freed from period in the operation.

Because of these fact the author bileres that the term adenous or fibro adenous of the accessory per urethral glands should be subst 1 ted for the term apperturely of the prostat

Ti chelaute (Z)

Marion - Epididy mectomy in Genital Tuberculous (Del epididymectoms dans in 1 berculose gentals) From m61 Par = 9 3 xxxx = 50

The other mass the treatment of greatal t ber colous by epidodynectrony. Ching anety 5 recent cases, he denies that in large majority the tests is motived as well as the epidodynus. In his series, only thurteen showed tasticular myolve ment.

Epididymectomy is preferable t caviration even when there are secondary infections and fixtule The idea that surgical removal of the taberalous leasons I vors aper dury of the discrete at the Larg continued medical treatment usually hals to effect core and often leads I maderment of original cryatas or the formation of absences and fairfule handle meetings I have year surgice. The triba or

weed by the author is described briefly. Of treats in patients subjected to this operation, maters were cured. Krizon Segm. M.D.

Arenowitsch, G. D. Anormalies in the Descart of the Treatices in the Weak Minded. (I class de Anormales des Descripes testicaleurs his Schoolanagen). Ventich is Malerpet, 222 b., §

To the physical stignate of metal hierance belong, among others, anomalies in the dented of the testicles consisting in their retention or hearded descent. With regard to these anomalies Aronou tach ristinged \$85 pagels in virson soft settings for retard dimental dee highers (clothets, section) for retard dimental dee highers (clothets, section) for retard the moderous was greatest in challenge for at the inchestors was greatest in challenge for at the inchestor was greatest in challenge for the setting of the

1 Retrnition of the testicles is a congraint asometr of embry obspical origin which, in association the other morphological and functional disturbances, indicates general rrest of development.

7 The anomaly is one of the most common in

per chopathic children (\$42 per cent)

The condition my be instituted or labited, and occasionally in associated through and hereast of per critil. It is found most frequently in the cases of serious retardation of psychic development which are characterized by unserous physical stag.

4 Is man cues the retention is only temporary and the testicle till reach to proper position at puberty. 5 Retention of the testicle is of tack not man

of hereditary taust or disturbance of pri chic development Buck (7)

MIRCHLIANZOUS

Branch W F The Relation of the General Practitioner t the Unelogist II second Vel 9 3 4 27

The general per titioner has the sel antage, held the unologist smally does not be observing the first symptoms of lessons of the unasary treet. The rither outlines the augments of some of the ron mon symptoms observed in surgical conditions it has onlinear treet. One of the most common symptoms and a symptom of suitable themsel supportation is because the second of the suitable of the suitable three suitables of the suitable of the suitable

a neonlasm W th regard to unnary frequency the author states that there are three important types that occurring in the young adult that occurring in the male at the age f prostatic enlargement, and that occurring in the female Persistent during frequency and pourla suggest renal tuberculous. Frequency in the female may be due to a transient colon bacillus infection. If it persusts, further investigation should be made. Frequency caused by an obstructing prostate is often confused with cvstita but the beence of rendual urms and the variations in the character of the prostate on rectal palpa tion flen indicate the correct diagnosis. Not infrecountly prostatic obstruction is due to an over looked mulionant enlargement. Rectal palpation should be routinely carried out in the cases of adult males with symptoms I disease of the urmary tract Cobe due to preteral stone is frequently diagnosed

as appendictis. In the absence of localized tendencies and high lencocyte count a delay as justified in most cases until an examination of the urine and a rentremoration of the urinary tract can be made

Small renal stones not infrequently pass, but repeated coins or several days of constant pain make investigation. I the unmary tract imperative. Under certain circumstances, acute unmary retention is more safely releved by superpublic dramage than by making passage through the urethra with instru-

It is evident that the early intelligent observation and advice of the general practitioner in of the greatest importance to the patient with disease inolving the urmary tract, and that the early recognition of surgical conditions and cooperation with the prologist are large factors in recovery

Keyser L. D. The Ethology of Urunary Lithusia. An Experimental Study. Arch Serg. 9.3. L. 5.5.

The author endeavored to subject the commoner theories of calculus formation to laboratory experiment. Efforts to merease the visible crystalline content of the time by the forced oral, intramuscular and subcutaneous administration of calcium salts proved futile. The administration of oxalates caused moderat oxalura but no concrement formation, while the subcutaneous imection of normal butyl oxalate produced an interne ovalures. A change in the form of the calcrum oxalate crystals to coalescent type and the consequent formation of calcul- as noted in one instance in the senses. B is of thesia (muscle and fascia) placed in the renal pelvis to act nucleus became impregnated with hime salts aly in the presence funlection. Under sterile conditions such impregnation did not take place

The formation of calculu was student also by feed my dammon orable and (oramn) to rabbus after the method of Ebatean and Nuclaier Fifty per cent of the rabbus and dops fed orasmed showed calculus formation in the urmany tract. Cultures from the kidneys and the urman funct. Cultures from the kidneys and the urm of such summals, were constitutely sterile. The orasmed sterned to be corrected.

as each or as hydrolysis product in combination with organe payment material. The crystals of oramid thus deposited differed in form from the synthethe product fed and showed a tendency to fusion which varied with the several morphologic varieties. I crystals observed. Precipitation of synthetic organic from human or animal urine is new yielded crystalline forms scientical with those passed by animals fed the drug. These crystals also tended to fuse and form osciettoms by removing most of the organic payment material from the stone forming organic drystals a form closely resembling synthetic

oramid in crystalline morphology was obtained.
Oramid seemed to be specifically pecifylitated in combination with the colloidal organic in tending normally present in animal time. In this precipitation there is tendency to fusion and stone forms tion, a fact surgesting that calculu in human beings may be due to atypical deposition of crystals by pathologic colloida present in posi formed by bacterial infection or brought into the urmany stream by anomalous nestable processing.

anomanous neutations processes . In case of opamid tone formation, mechanical factors such as organic nuclei, stans, and diverticula, while not essential t. the process greatly increase the deposition of future crystals and hence cause the stone to grow. This suggests the possibility that such factors play a similar rôle in the formation of the stones seen chincilly.

Several experiments illustrating the effect of colloids produced bacterally in the precipitation of small concertions are otted. The cler rabbats were fed with sodium orisite after with sodium orisite after that deem produced in one kinder. Four of these developed small concretions in the calices of the infected backers.

In one instance concretions were produced by the intravenous injection of colon bacilla grown from a calculus obtained from clinical case into a ribbit whose kidney had been previously traumatized.

It is suggested that there are four prosective necknames against the formation of stone () the chanames against the own-ton of the change of the ton of unnary cytalidods, () the protectin colloids of the unne () the hitty of the unne when saturation is reached, it deposit crystals using soluted units, and (s) the form and muscular turity of the unmary tract

Calcult are due to abnormal colloidal matter in unne. This probably areas most frequently from inflammatory xudates of specific batteria. The posnishity that batteria may be formed from excessive crystalline excretion is emphasized. Stass in the unnary tract, while not a cuse of stone, promotes stone growth when the stone forming process is present.

Bachrach, R. Th. Operative Treatment of Genital Tuberculosis (Zer operatives Behandling der Genitaltuberkulose). Zischr f. grof. Chr. 9 3, n. 14

The author reports that in the course i years epshedymectomy was practiced more frequently by

cestration

Zuckerkand! in isolated tuberculous of the epididymis and in cases in which the extent of the process did not necessitate the removal of the tests. The

techalque of epidodymectomy was as fallows. After the location is the shin of the scrotum was made under local anexhesia the vas deferent was made under local anexhesia the vas deferent was durided and the lead of the epidody sind dassected from the testic slong its medial surface with care to preserve the venous plexus emanting from the testic after opening of the sinusca against, the testic after opening of the sinusca against, the case of the sinuscal spatial testic state of the sinuscal spatial testic state of the sinuscal spatial three testics. As the sinuscal sinusciple is and from there the latter a directed in a sign and directione. The alump of the vas deferent was then untered int a slit in the skin above the inconsortium.

wound to bolate it and to faribitate local treatment.

I cases of marked caseous softening of the epiddymit, in which a dissectional extraption of the orgin is not always possible the diseased traces may be exceededed and the wound surface auturned into

the skin shi

Of servesty cases of tubercubols of the tests or epichdymis, thurty to were treated by smallerial castration and two by total castration. Operation was done thatly as times for tubercubous of the epichdymis (eight balaterial epidelymectomes, it entry one amilitarial epidelymectomes, and currettage of the tubercubous forces and implantation of the ound surface in the skin in severe cases).

The ages of the patients ere as follow 51 so years five so to 30 years 1 caty-one 30 to 40

years, fifteen; so to go years, eight to be so year to sorteen and do to yo years, seven Jost as a tuberculosis of the bones and jo its traces as a import at predapouling i cut also in tuberculosis of the epidody mis. Gonorrhers was found is say arteen of the suthor's case. In I cut; then was an associated leason at the polinocary agent Complexiting tuberculosis of other organs the ether found in eleven cases (including tuberculosis adortion includiers). To be reclusive of the kildery and of the greatial organs in frequently associated with triber culosis of the principle of the state of the state of the culosis of the principle of the culosis of the leading in go per cent of the cases.

nephrectomy of an epidadymectom; In general the author as opened to the conservative treatment of genulal tuberculous. If has been able to trace twenty fit of the patients he rule suppositly. Five orredeed at the end of three your and fatteen or well. Of the latter as a very treated by epidads mectousy, eight a cre-subjected by subterend extraction, and one as treated by fullation.

In coscionor, Bachrach reports the case of a syper-old man in which, after father of newsy methods, the spreading tuberralous process as finall streeted by step too of the seminal circle. The time size the operations is still too short, lowever it warrant definite conclusions as to the enderesalt.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIOUS: POSTOPERATIVE TREATMENT

Weston, P. G., and Howard, M. Q.; Magnesium Sulphate se a Sedative. As J. H. Sc. 9 3. dry 41

Pura recrystallused magnesium sulphate with its water of crystallication was made into a 50 per cent solution with distilled water atendred, and injected subcutaneously and intramuscularly The authors hav given more than a thousand such injections No local pain or aloughing occurred when proper secuted technique was used. In 83 7 per cent of the cases the sedative action was prompt, the patient becoming omet after from filteen to thirty minutes and sleeping from five to seven hours instances the patient became quiet but did not sleep

The effect persisted for from five to ten bours In many cases the salt a as found to be an excellent substitute for morphise and hyoscine In 6 per cent of the cases it was necessary to repeat the dose of s com beloro sedation was obtained In

cent no effect at all as poted after the injection

of three or more does In the dose necessary to produce sedative effects the salt is harmless. The authors have not had an opportunity to use the salt in pre operative or post operative cases or acute thyrotoxicosis

AMESTHEMA

E C ROSCHUSER M D

Robledo y Sanz Arterial Frequers in the Defferent Types of Annetheda (La presón arterial en las dimintes anentenes) Are espes d cirus o 2.

The uthors have made to experimental deter minations of the blood pressure under different types of angesthesia chloroform angesthesia in forty aix cases other angesthesia in four mixed angesthesia (chloroform and ether) in fifteen spins) anasthesis m fifteen, regional aniesthesia in four and local anestheus is sixteed

From these investigations he dra a the following conclusions

Anasthesia in general, and chloroform anasthems in particular causes the arterial pressure to fall m more than 50 per cent of the cases during the period funcithens

Mured assembles also may cause a fall in the arterual pressure but does not do so in such a high percentage f cases as general anesthesis Spansi angesthems frequently causes the arto-

ral pressure to drop Therefore it is not so harneless as is generally believed

4 Whatever the pathology of shock, general an-

sethesia (chloroform anesthesia especially) favora

its development by causing a rapid fall in the arte rial pressure

5 The arterial pressure after the induction anarathena dependa upon many factors, including ichosyncrasy to the anesthetic, the influence of hoszetal environment upon the patient, the seriousness of the traumatism, the patient a condition, etc.

6 Local angesthesis usually increases the arterial

pressure or does not change it at all. W A BRETON

Valentin, B The Freezing of Narros (Die Kerrenvercenne) Hed The 9 1 rem, 137

The sequence in which the individual elements of mused nerve stems lose their function in freezing of the nerve has not yet been determined with cer The views of many investigators re dis tamts metrically opposed. The most reliable findings are those of Laewen who showed that the sensory nerve conduction is lost first and the motor function somewhat later Interruption of conduction persons longest after section of the nerve, continuing until the beginning of regeneration. It lasts for some time also when alcohol and ammonia are used became these cause from cleatrices. Freezing interrupts conduction for only three days Ethyl chloride and carbonic acid differ only in the degree of the cold, the former giving 38 degrees and the latter 78 de grees, but the effect is the same

If we knew the effects of the loss of function in the individual portions of a mixed nerve, it would be possible to learn also the length of time necessary t obtain them and thus to exclude only that portio of the perve which it is desired to block

It appears that the freezing procedure offers the best outlook for the future, especially as it is appheable wherever temporary exclusion is required. Microscopic examination on the third day after the freezing reveals degeneration of the central stump but soon theresiter shows regeneration

In conclusion the author calls attention to recent work on this subject by Bielschowsky and supplements his article with a bibliography

Windows (Z)

Deves, H Blood-Sugar Determinations in Cases of Operation Performed under Local Ansathesis and Ether Ansethesis (Ueber Blutznek erantersychangen bei Operationen in Lokalamersthese and Arthurnarkone) Arch | Min Cho o COOL 71

In practically all cases of extraperatoneal opera tions performed under local angesthesis induced with novocame adressin solution, a slight increase in the blood sugar occurs, which is due entirely to the injection of the anaesthetic field. In cases of laps

rotomy performed under local anarthesis and other angesthesia, the blood sugar may increase t from ta o and one-half to four times the portral value. This is ttributed to a complex effect of among stimula upon the perstoneum and the sympathetic nerves in the upper belomen Postoperative gly cosuma is rare even hen there is considerable locrease in the blood sugar during the operation, but it may appear after local an eathers as ell as ther anasthesis when there is no increase in the blood silent

Mirket, P. L. Splanchnic Amusthesia (Asesteua estilicanca) Ret mill d Reserve # 2, 111, 147

Maraca reports the result obtained th the kappes method, a buch only one nosterior infertion of the appealactic is given. If the Braun method tried a three cases he obtained satisfactory anysthema in only one case. Morether thirty three cases I surpocal diseases of the upper abdomen were operated upon under splunchme anesthesia in t ents aux the happes method as used, to com of Der cent poy ocaspe dresslin solution beine admintered at one myection on the right side. The reults were satisfactory in 1 enty-three cases (\$9.46 per cent) and mediocre in three. In four cases it as necessars to complet the aprestheur 1th 1 Cem of the same solution given according to the Braun technique. In two of the three cases in which the results were medicery, this appeatheurs was the first attenthesia, and it one the needle as too short. An import at ad antare of planchnic aperathesis is its duration. Such may be as long as two and one-half hours W A BREALA

Merker W. R. The Use of Paravertebral Nervo Block Angethesis in General Surtery Musetota Med 93, 1, 18

Local an esthetic procedures are divided into (1) terminal pafiltration, (s) field block, and (3) nero The newer methods I pers block were gradually evolved by efforts t widen the scope of operations which may be performed under local amenthesis. In para ert brai nerve block the perves are blocked at their points of emergence from the spanal canal this may be applied to any spanal nerve and to any level of the spine Each procedure is called by the name of the criebral segment to which it belones

Block I the cervical plevus may be performed by () the posterior route, () the lateral direct route, and (a) the lateral oblique rout deeper and more efficient assestaces methods gn lateral methods the blique is to be preferred to the direct because in the former there is no danger of injuring the vertebral casels and speas! cord Block of the cervacel plexus by the lateral oblique method is safe and efficient procedure and gives an dequate angethern for all operations on the neck

Thoracic and lumbar paravertebral nerve block is most efficient in laminectomy and thoracic opera

tions. It also has a limited value in radical money of the breast and in pephrectomy. The we of its operations is not to be recommended. The technique is highly complicated, tedious, and time-commune the anasthesis is often insufficient, the deman made upon the patient payche are rather sever, and the injections are not free from risk. Is the sperience of the M vo Chale the procedure has been untathelactory for abdominal surrery even a the hands of experts. In block of the meral nerves preference is given ! the trans-social method is hich injection of the nerves t the posterior extra foramina is conshined to this loss conductal injection B) this method a very good angethesis of the court

pelvic floor and viscera is produced. Then # # combused ith a field block in the abdomani wall for suprapulae mendon, resection of the bladder and prostatectomy may be performed numberly The value of paraverreheal perve block as not the same at all levels of the soine. It is most efficient in sureers of the nel ic floor and viscers and the neck It is least autulactory in abdominal surgery

Claneini, C. A. Citoleo-Statistical Contribution 40 beford and Local Agreethesis from the Agree Hospital (Contributo chace-statistice rate tackinvestante ed suettene torak pratezio prese l'Infermeria presidiatia de Aquala). Polichio Rosse, TAT SEE DIE

In which its use is never indicated

In the Arenia Hospital arenal amenthesia was undaced in the cases of \$56 patients ranging in age from ro t do y trs 1 all stovaine was emplored In 57 of these a poutry immediate stresthesis obtained its duration varied from one and one half to the bours. In a 5 cases local antestheras 20 induced for minor operations, novocame being med in the majority From this experience Cuspens draw the following conclusions

Spanal amosthesia may be employed when get eral and local angesthesis are contr. indicated Dangers, failures, and moonvenences depend upon the dosuge, the sature, purity and stability of the preparation used and the region in which the

poneture is made. Storage mixtures of storage ad severance and nonocume and administrative him been found non tonic. For sub-umbilical operations the practure should be made I the level of the third or fourth vertebra 3 Local menthens induced with nevocaine and

adrenalin should be used hen general anesthesis and spraal angesthesis are contra indicated

T. A RED YAL

France, M. Supra-Umbilical Spinal Asserthesia (La rachianestena sepra-ombelicale) Arch stel di CAN 9 1, TL, 507

After prelumently injection of at gm of mor phine and out gar of scopolamine, immborated spinal puncture is performed with the patient in the sitting position. From so to 30 c cm of cerebro

minal fluid are withdra in depending on the pressure Anesthesia is then induced with o 12 gm of ameaine (French novocaune) dessolved in 3 c cm of distilled water. As this is injected, cerebrospinal find a withdrawn int the syringe and mixed with it For operations on the permeum or lower ex tremities, og gm of sincause is sufficient. After the mjection the patient is kept in the sitting position for fi e minutes and then allowed to be undisturbed for five minutes before the operation

is begun In three hundred cases treated in this manner there as only one postoperative death, that of a man re years old who had a strangulated hernia

which caused facal vomiting

A disadvantage of the method is that the aniesthesia is imperfect in about to per cent of the cases In such cases maltration of the abdominal wall with s per cent novocame as indicated

Force symptoms sometimes arise from the sarread of the ancause t the central nervous system. The vomiting center is first involved. An injection of

5 to 5 gm will overcome this condition Guibal reported fi e cases of apneca One patient died, but the there were restored by ar tificial respiration. Bloch and Hertz reported four cases of apports preceded by natures, sucrature.

pallor midriasis, absence of the ocular reflexes, and slowing of the pube which were cured by caffeine injections

An almost constant phenomenon, especially in cases with abdominal inflammation, is anal incon timence. This is considered an advantage because the discharge of pent up feeal material during the operation renders unnecessary the use of post operative enemata and medication to induce bowel movements and does not endanger the ascess of the wound Headache associated with this type of angsthesia is of short duration. Spinal hamorrhage and aseptic menuncitis as complications have been eported Septic meningitis following the procedure is due probably to bacteria from the blood stream Tuberculous meningitis has been considered a possible seguela

In spate of these inconveniences and possible dangers, spinal angesthesia has fewer complications than mhalation anestheds. Its advantages are that the anesthetic is rapidly eliminated operation may he performed on persons whose condition contra-in dicates inhalation angesthesis, there is absence of shock the muscles are completely relaxed breathing is regular vomiting does not occur the patient is ble to co-operate and the services of one assist ant may be despensed with Krizzons Street, M D

PHYSICO CHEMICAL METHODS IN SURGERY

ROBITOENOLOGY

Juenell 4: The Rational Roentgen-Ray Douge in the Treatment of Surgical Disease (the rationelle Roentgenarchise)see he Behandlung chru gurler I rkrankungta) Strakkeniber 9 221

This article deals with the downer for carcinoma, streoma, and it berculous. The canception of the carcinoma done as a curative done is rejected. Instead, this does be considered to be the minimum done which will smallly easer an influence on carcinoma. The upper limit of the allow bie donage is estimated as it to risp per cent of the ski unit done. This assumption is based on experime tall fainties.

The effect on the foregrammy months around a strongly with the affected expellation and the tensor already with the affected expellation and the tensor action as a maximum and present player the cursonax cells. From this the conclusion is the cursonax cells. From this the conclusion is the cursonax cells. From this the conclusion is the curson that the required minimum dosage must be dimused that the tensor and the conclusion of the conclusion of the conclusion of the curson of the curso

Twenty per cent of aeromata are refractory others disappear very readily and others retrogress but do not disappear enturely. The last mentioned usually have medium sensitiveness, which may be more the skin must dose. Therefore the surround dos ago as organally defined as rejected. It is rather useful medium aher. In garconiast the dose may be

scattered.

In the treatment of tuberculous, reentermologists are returning to the use of small doses. The author describes the technique for the treatment of lymphomats, periodnits, and gount infection.

Structure (Z)

Maximore A. A. Studies of the Changes Produced by the Roentgen Rays in Inflamed Conmective Tissue. J. Expr. Mol. 9. 5, 222211, 319

The inflammatory changes in consective issue have been the subject of investigation by the author for many years. To determine the change produced by irridation, be conducted a number of experiments on rabbits. An asoptic inflammation was caused by introducing bloots of celludes into the subcuttaneous or intermisently loose connective tended the absolute and subjecting this area to roustigen translation. Different annuals ever present increasing number of exponers and microscopic examination of the trends was the first translation of the trends with a finding were obserted up by countril.

It was found that the action of the rocatgen rays on inflamed tomas manifests stacil first by a conaderable depression of the usual reaction of the fibroblasts Under normal currentstance there dresses bepar 1 drude milotechyld brung the fort bent four bours and soon form a layer of see contents tones surrounding the foreign body. After trustants with the roentigen rays they remain alle, do set multiply at all or begin very like, and after sind abnormally. They undergo a high degree of petits foreign layer frozing or petits provided in attention of automatic constructions often appear is the norders. The capacity for obliger formats in the norders.

With these changes of the fibroblasts an interordering of the connecty. Tunne surrounding the loveling body is noted, and in the mimediate aughhorhood of the latter a thick layer of are tille cisted

fibrinous exadate is formed.

Ventroctive qualitating changes can be found in the leucocytes and polybilatin. Degeneration present here only to the stune extent as a common septic inflammation. First, low once the rate set the direction of the emigrature of all the ords countries from the blood are moressed, and, secondly there also y a distinct delay in the process of the common transformations causally medicinguously the polybilation of the field of inflammation. Above states, the transformation and the like stages, the tissue is overcrowded with granific stages, the tissue is overcrowded with granific special knowy of the polybilation, here is mit the like stages, the tissue is overcrowded with granific proposition of the polybilation of the proposition of the polybilation. The press in the early stages the low returns of the ordering colls modering colls modering colls modering colls modering on such tasks above.

In the blood wastle engling of the endothers cells with fregmentation of the modes and, as the strated massless, degeneration of the Sheri can be detected. In the latter both typical congulation is; cross and trophy occur accompanied by loss of stration, exparation of the Shrille from one snother relative increase in surroubsian gain ambient

district of pacific

If is evident that the changes in the cells of the inflamed area, cheely in the Broblests, but also is the much fibers, under the influence of the receipt rays are the result of complicated interestates to seen two different agents, fort, the inflammation of the result of the control of the

The strong inhibitory and deletations influence of the row type ruys on influence contective tasses should therefore be borden in stud in the therapeutic size of this hard of energy especially in case of malitimate tempora. Amount Henryo, M.D. Kok, F., and Vorisender K. Biological Investigations of the Effect of Irradiation on Carcinoma (Biologneis Versache urber die Wirkung der Bestrahlung auf des Carcinom) Strahlenders pre-

9 XL.

The thor reports on very extensive investigations in which great care as taken to od all the domestic and biological causes (error which haled t anxion in the results obtained betrefore As to impossible t conduct extensive serial in extigations on human carcinomata under entirely similar preliminary conditions, inoculation tumors of mer were used for the biological tests.

I order to achiev comparison with the treat ment given in clinical cases an itempt was first made t determine the epilatory and erythema dosage in the mouse. It was found that the lower limit of the epilatory dose is about 5 (= the electrostatic unit) whereas inflammation of the skin or esicle formations were not observed even when very much higher doses were used. Therefore direct calculation by the methods pipied in clinical cases to determine the so called carernoma dose in the mouse is impossible. If may be assumed, however that the ca enoma dosers for the mouse tumors is a

little hurber-about 100 e

The microscopic study of the skin of the irradiated animals aboved changes not only on the irradiated area, but also on the non irradiated areas. This indirect effect was fundamentally similar to the direct effect but was scale: It was not produced by scattering or secondary irradiation as it was found also in areas which could not hav been exposed to such irradiation. This constantly found effect in the non irradiated skin suggests that the raskshar general effect which, according to Optis is an increase in the natural protective reaction.

HARRES (Z)

MISCELLANEOUS

CLINICAL ENTITIES GENERAL PHYSIO-LOGICAL CONDITIONS

Calle G W Studies in Inhaustien Physical Treoma. Int Ser to 1 Lavo

Thi article is one of a series nitten by Cule on thaustion. The atodies included observ tion on the blood pers are following physical fature t ous organs and the une histologic harres ! organ changes in the blood hearl try hanges to electrical emodurativity and temper ture in the brain and layer

Report of the research in treased a the earl and late effect of such trauma has been published from

time to time

There is a definit quantit t e relationship be tween physic I traum ad shock which ca he call in tensoria ada modele recepto brook more lettere shork dereads goo the mount of injured tissue the intensity of the taken itself od the amber of lawer lurgers I furles to the deep protected ones. struct tre produce collapse rather than shock bille injunes t the more posed part cause greater shork

There I a direct relationship also between the nerse sample of the insured part and the degree of abork. Shock can be eluninated by blocking the betre mply of the part with a local anarethetic Exhaustion of the somotor mechanism is a lim port t I ctor although not the oak productive

arter in shock

The findings of series of apenment showing the hasslogu. Text of trauma to the most erg as as tabulated. Trauma under other under altrouspride yer anythed and after the complet severance of the spanal cord wa studied Less shock was noted under artrops oxide oxygen nantheus than when ether was used and lter the cord complet ly severed no amount of trauma caused the subjective book symptoms or the characteristic blutologic th ages noted in shock

Experiment ere made t determine bether or be transmitted through the flood from ant shock t amatized t a non-triumatized ment either by blood tra sfusion or a threet scula maxiomo un The nationaled that abound no histologic

rhaures timbut ble t shock

Other experime ta ere made to determine the effect of physical trium t organs other than the central nervous jutem. Ch ages were noted in the liver pd t less degree in the suprareash. Other organs ere presently not flected bindies ere made I the supraren l'output abork benacal hanges in the blood, the electric conductivity of the brain and heer and temperature in t was in the beam od in er during shock

On the hall of these exhausts att on the author concludes that the movinal cares of ra habitum ind shock after physical trasms are the ges i th central remous vitem. I ales drawe the beer ad drenals remained There no furcit exidence indicating a courte i proper the et in the blood produced by physical trams. Laba stion from errotoral harges, property, or e critica is a cotical with that produced in play of H M COT VD

Bantlerd, F.J. Invalin J. M. A. 5 v M. Sec

+ LTI

The athor review briefs the lasters of dubetes from the middle of the th century to the present time II the tells of the sperimental ork and describes the lessest us reported by Barron in birk obstruction of the procreatly dust creat destruction of an mous tissues those production dislictic mixtons. The condition a experience tall reproduced by Banting who found that the injection of the degenerated remaint of the pineres dialetic the resulted in marked reduction the blood ugar Later an entract made from the decement and almost would the be result. The extract was the first besults

Deca se of the spense and the required to produe pancreatic degeneration efforts were directed to obtain mask by som other method. The rest extract was made from the mineress of fetal member I this manner enough ctry extract to cont one the experimental ork. It was found th insulin the blood sura of completch departer tued does can be maintained aften and mal limit and that the life of each the bets, dog ca be probugged indefinit h Similar effects the est act ere obtained in limital an of dishetes. excess of unaba M It w descon eted also th 1 erfuction in the blood hable t produce too gre t suga with imploms resembling those of dishels: cons

The commercial production of aesalus and the methods adopted for its introduction to the profession in order to salego rd the public are discussed in detail WILL F SERVICES VID

Blood, & Trawmack: I phthelial Cysts (For Keast mes der traumsteichen I petheles) 4m2 f 25

Či. 3, CET 605 ther has exam ned histologic II

number of epithel il cy t in the Surpoil Division of the General Hospital I Vacuus II reports with illustrations, six I pacel cases

With regard I the etiology there are t According t Reverds and C rre the traumatic displacement of bit of epidermia inf the subcutaneous tissue while according to Pela-Lensden and Horn, it is an injury of the schacross and sudoriteous glands and the hair follocks around a foreign body which has entered from the outside. The theory of Revends and Garré explained all of the author's cases except two

Blond does not counder it justifiable t dem the existence of traumatic dermonds and t regard all dermonds are congenital. Traumatic dermonds may occur in almost any part of the body. The bettef that they addom poear ches her than on the palm of the hand is to be explained on the basis.

of an incorrect diagnosis of atheroma, fibroma etc.
The a thor proposes substitution f the term traumatic epidermoid for the term traumatic conficial cyst. So 20 (Z)

GENERAL BACTERIAL INFECTIONS GENERAL MYCOTIC INFECTIONS

Regan, J. C. The T estment of Cutaneous An three, with Few Remarks on Prophylana § 1 ork Side J. H. 9 3 xxxi. 3

Cutaneous anthrax is disseminated among animals by the products I animal lift the urinary and legisl discharges the bair and hides of infected animals, and the cadavers I animals which died of the disease or harbord anthrax bacilli in their hair

The anthrax bacilius readily produces spores and these may remain potential source of infection in the soil for years Cattle pasturing on uch lands

become infected

The messures for perention, comprise () the bearing of infected careasis a faintials dung the disease (2) destruction of the virta by proper than age, and cultivation of the soil, and (4) proper distinction of all imported hair and kindes, including the proper disposal of all 1 set matter smudge and druitage a ter from tameries, and (4) the prevent on foutbreats of arthrait by thoroughly immuning all susceptible or exposed animals by means 1 sanibrar vicents.

Human infections especially in the form of cut neous anthrax or mahanant postule, are almost al ways contracted from animals directly or from ani

ways contracted from animals directly or from animal products such as the hide or hair Early diagnose is f the timest importance

Thermore tensation bould not be used. Chemical countries are also contra indicated. The severity of the method the pain produced the subsequent development I more local cedema, the industrian inter destruction of both dead and living trace and the prolonged convalencence renders these methods networks.

Of the swipcal measures for anthrax incisso is the oldest but is now general dist you. The method must commonly used at present is examine to this bas limitations and disadvantages which make it in appropriate if there is another method which is reliable applicable t all cases in the severe

Ann anthra serum was originall produced by Marchoux of France and Sciavo of Italy in 805 by

immunizing sheep. The relatively few failures in the use of this seems can be tryaced to () its use too little in the course of the discuss after a septicema had super need or within twelve to twenty four bours of death (a) the employment of too mail doser-no to go come (a) failure to repeat the injections frequently (in many immances only one done was given and that subcustances(a)? (4) is use for patients with chronic diseases such as mocardists neobritis swithing, etc.

Regan contends that other local methods bould not be used in conjunction with serum. Either they are prefficient or so radical that there is danger. I

further local involvement or septicemus

The a thor has desired the local impection of antianthrax security. For giving these togettoes is z to 5 cm. Linet writings fitted with fine needle is used After the probestion of sodine 1 the sim the needle is meeted into the industred border of the pustule and directed fairly deeply (from a 3 to 3, cm.) into the subjectioneous tissue at the base of the leason From 5 to 1 cm. feeting in the giving depending on the size (the leason, the needle being meeted 1 tw. or three points and the serum injected so as to circumscribe the pestule. The injections are given once or twice in the subjection hours in mild or moder to cases, and every six t. eight hours in more severe cases.

Tellowing such local injections the lymph secrition in the region (the purities contains a high antilody critical. The type I the local inflammatory resction is peculiar. The serious discharge from the positule in characteristically poor in leucocytes, and nucroscopic sections of the lesson abox a strong tendency of the bondli to collect in the critical of possible the leucocytes being distributed as a dense infiltration sround the margins of the lesson and I the subjects redilied twom. Probably this a due to negative chemotaris. Since the serious has a marked effect in facilitating phapps (soms I is logical to supply 1 in concentrated form at the sit of the infection.

The local injections must be supplemented by general distinguistation of the specific agent by the boutaneous, intravenous, or intrinsucula routes In mild cases thout septements the doage ver

In mild cases thout septement the docage ver ages 40 t 5 c cm every twelve t twenty four bours. The first few injections are intravenous his those meaning that the second sections are intravenous.

hile those given later are intramuscular and subortaneous in moderate cases yor to occus are given intre enough; their for three or forecurtions every eight; t seefer bours, and their could dose are given by intramuscular and subcutaneous injection. In sever cases, hot so can (or even soo cars) are given intramenously every are eight bours for five or as more injections, until the disease is controlled, when the mirrimmicular and subcutaneous routes may be med. In case with septicemia, the dosage must be very high from 15 to 1000 cc as given every thirte to six hour.

The appearance of serum rash several days after the injection is fairl common. It is dynable t test the pittent out for sensitization in cut neconsitiest and f a reaction is obtused it desentative before giving the mycron. The first few cubic centimeters should be allowed it enter the cine ensuring and abouth be ill diluted this neems in the mental artise. The rest can then be given undid ted.

When II Is as M.D.

Whit P A Actinomycosis Dagnosis ad Treatment J I ex Stat V Sec. 9 3 May 05

I the Western and Northwestern tates it is important that actinom cases—pathologic l'entitbe kept in mind. Of 3 collected cases—bout 40 per cent. cre from these states.

The disease on a commonly in title—buth to know homps ja Sit parent of the ases of actinomy one in more those of finners. These facts indicate that there is either direct ference from unable or indirect inocult one by

merins of some materi I so h a grasses or grains cont min ted by mm is The lesions m y occur in linest part of the

The lesions my occur in linest part of the huma body. The head and neek re involved in over 60 per ce t of the cases.

A defaut classial disgnoss of actinomycoss is often difficult, especially if the case is seen earl or late. In early cives the condition is difficult to the thinguish from the terculous of the glands. Holgist in disease sarroma or simple phlegmon. Pretically, the digital seems is much by finding the ellow holdes in the puralest discharge from an incised doctor, or one one.

For the treatment, numerous drugs has been ad worsted copps, alt sat mail d externall methylese blue internally ad injected sat the tissues ad sizes e. 1. Autogenous, ad poly relient stock actions to be a word and prophis mented to surgeral treatment. Roentgee ray, ad radium the raph, b yielded some success! I result. I t cases araphen mus ga. plendul results. Inculos of the baces blong the ca. ity. the sodine ad praking the lodoform grazze is effectival method.

I chronic c set the p treat bould be told that the condition is probe t recur and piperal the ther absences re pt 1 form, and that treatment will precessarily be prolonged. A next case with definitely for lined between the prolonged and the thousal treatment in the treatment of the treatment of

SURGICAL PATHOLOGY AND DIAGNOSIS

Rejser V D. A Rapid Technique for Preparing filtralogic Sections by the Paraffin Victoria, f in M I 0 3 ltx 640

The method described depend primarily on hast coing the doly durature process to the use of hot are tone. I the author laborators that is accomplished to plaining the faird tissue is jot on greatment bottle of that glass, adding about 3 c cm of acctions: clamping the cork is place of their petting the bottle in the paraffin oven it to degrees C for is born. With earlief this time the debut duration

t hours At the end of this time the dehydration process is completed exidenced to the bests of turbishs on the delition of lene As accione is bost influenciable as alcohol the pressure it inside the accioned to the pressure in a most accioned to the pressure in

E C Rosersati M.D.

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SURGERY OF THE HEAD AND NECK

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Surposal and results to general, with case of as emoves

heroengroom of the shall in particular II C marvo Surg Cynec & Obst 921, xxvv 303

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EDITOR'S COMMENT

THE conscientious surgeon who wishes to keep abreast of American surgical literature

is frequently startled at the large total of the number of periodicals devoted to the subject of medicine and surgery Fortunately they are not all of equal interest or importance che his task would be impossible

American journals may be divided into four groups those devoted to the general field of medicine and surgery and its specialities those devoted to general surgery those devoted to one or more of the special fields of surgery and those devoted to the allied medical sciences, such as anatomy physiology, pathology etc

The first group contains the names of some of our oldest and best known periodicals The monthly American Journal of the Medical Sciencer edited by John H. Musser Jr., was established in Philadelphia in 1810 and has always carried to its readers something of the soint and atmosphere of that historic and disimpushed center of American medicane recent years subjects pertaining to the field of internal medicine have considerably outnumbered subjects of distinctly surgical interest in its

pages
The neckly Journal of the American Medical Assecution, edited by George H Summons, is too well known to require comment as to its character or contents. It is the official journal of the American Medical Association, and its columns are open abke to the general practitioner and to the specialist in every department of methane and surgery. It is invaluable to both the surgeon and the internet. In addition to the section devoted to original articles it contains extellent basel reviews of the more important articles appearing in other American soumals and in foreign journals

The semi-monthly New York Medical Journal and Medical Record edited by Gregory Strag nell, was established in 1811 as the Medical News end Library Its editors have adopted the policy of featuring in one made of each month some specific general subject. Physiotherapy pastro-enterology and endocrinology are among the subjects recently emphasized. This journal, like the American Journal of Medical Sciences, loses some of its potential value in presenting few

illustrations in its columns

The monthly Bulletin of the Johns Hopkins Herautel founded in 1889 contains details of hospital and dispensivy practice abstracts of namers read and other proceedings of the Medi cal Somety of the Hountal and other matters of general interest in connection with work of the hospital It is beautifully illustrated printed on fine paper and reflects most creditably the high standards in medicine and surgery for which the Johns Hookins Medical School has always stood

In addition to the journals mentioned there is a considerable number of journal, more definitely local in their character and interest. and consequently of more limited scope and circulation The excellent Boston Medical and Surrical Journal a weekly periodical founded in 1820, edited by Walter P Bowers, the monthly Therapeulic Gesette edited by Hobart Amory Hare and Edward Martin the monthly Southern Medical Jearnal edited by M 1 Dabney the Canadian Medical Association Journal edited by A D Blackader and Vertiness Medicine are the more unportant members of this group

In addition to these national and sectional journals there is also a large number of state journals published under the auspices of the various state someties. Some of these, by reason of their consistent excellence deserve special mention Heavessia Medicine, edited by Carl B Drake the California State Journal of Medione, edited by W E Mingrave, the New 1 ork State Journal of Medicine edited by Nathan B Van Etten the Allantu Medical Jo rnal (Pennsylvania and Delaware) edited by Frederick L. Van Sickle, the Historian Medical Journal edited by Rock Sleyster and the Ohio State Medical Jearnal ethied by Don A. Martin, are the leaders in this group

Of the journals devoted to general surgery three stand in a class by themselves the Annals of Surgery the Archnes of Surgery and Spragery

GYMECOLOGY AND OBSTETRICS

The monthly Annals of Surgery edited by Lewis Stephen Pilcher is our oldest surgical yournal Its long and distinguished career of usefulness to the surgical profession needs no added emphasis

The be-monthly Archnes of Surgery edited by Dean D Lean was established in 1920 to enlarge the surpical horizon and avest in establishing surgery on a sounder basis," to help develop the fundamental hunches of surgery by affording a greater opportunity for the publication of original investigations directly connected with the field of surgery.

Stimmer Gramoulogy and Obstration, edited by Franklin H. Martin and Allen B. Kanavel, needs no introduction to our readen. These three journals, international in their boruson, are indispensable to the man seriously interested in surgery.

If particular interest in this month's contributions to the Asstract is a group of articles on the surgery of the stomach A consideration of the indications for and technique of radical operations upon the stomach by W. J. Mayo (p 132) a resume of the technique em ployed and results secured in 467 cases of ulcer of the stomach and duodenum operated upon by I materer (p 130) & report on the character of direction after operations upon the stomach and intestines in does by Dagnew (p. 133) and a discussion of the results of surgical treatment in acute gastric and duodenal hemorrhage, also by Functorer (p 130) are of especial importance. An abstract of Still a paper (p. 128) on congenital hypertrophy of the pylorus, appearing in the British Medical Journal sums up the results of the observations made by Still on #48 cases a remarkable experience to have fallen to the lot

A discussion of the surgical treatment of chronic ulcerative coluin by Stone (p. 137) enphasizes the increasing tendency to apply more certain and definite methods in the treatment of this obstitute discusse.

inh commer disease.

Chaou's article on the treatment of surpoil tuberculosis by roentgen radiation (p. 171) will be of interest to every surgeon. The author believes radiation affords a shubble adjunct to other recognized methods of treatment.

Bomm s discussion of serotherapy and chemotherapy in purepent infection (p. 15); indicates the constant search for better methods of treating that disastrous complication. Busin believes that intramuscular and intravenous injections of sers and of bacterioidal preparations are defailte value if employed at the proper time.

The pre-operative application of radium in cancer of the corrus (Eden and Goodwin, p. 146) the effect of rootigen minimum radius of the owner, of the contract and gestation in radius (Laurence and Coutard, p. 72) experimental investigation of the effect of radium on the hymp gland clottram, p. 170) and on the metamorphose of metallic (Lawrance p. 174) are subjects that will be tests both the gynecologist and the worker in N-ray and radium therapy.

A brief report of fifteen cases of thymectomy by Manque (p 14) soggests the feasibility of this surgical procedure under certain conditions

INTERNATIONAL ABSTRACT OF SURGERY

AUGUST 1923

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

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Fox, L. W. Heterophoria Am J Opidia 9 3

F x states that beterophorus as a constant accompamment of honocular angle vason, libough it may not sivesy cause symptoms. The production of symptoms a due to general run down condition as in latigue, exhaustion from disease, or improperly fitted glusses.

M door is quoted as stating that if lateral deviations are complicated by hyperphoras, the vertical deviation should be corrected first as the lateral will then probably correct used? Quoting d. Softweints, Fox enphasizes the fact that the muscles should be tasted their the refrictives error has been fully determined and the the full correction on Freepontly the patient if a scrept greater correction of hypermetrogue at the postery chapter. Softwein the patient is the postery chapter contribution of the patient is supported by the contribution of the patient is supported by the contribution of the patient of the patient is supported by the contribution of the patient pa

Jackson, E. The Transfer of Function of the Ocular Nusces Ast J Opinia 9 5, 7

The author discusses the transference of muscles in general and review in particular the bistory of transference of the ocular muscles

When process a present, either the superior rectus or the frontains a usually employed. When the stope for rectus is paralyzed, the upper portions of the interiors and externor may be used being with beil, from their insertion about 19 cm and trached it the paralyzed tendon close to its insertion or to the sclera. Similarly the inferior ectus may be replaced by portions of the interiors and externors.

If the internal or external rectus is paralysed, the median or lateral portion of the superior and inferior recti may be used similarly. If the superior obliques is paralysed, the temporal portion of the superior retus is given a singlify different insertion. If there complete third-nerve paralysis, the superior

oblique can be removed from its normal attachment and satured to the tendinous attachment of the internus, the pully cut axes and the muscle abortened Taosis D ALLE, M D

French, R. F. Diminishing Accommodation, Artificially Produced. J. I. State M. Sec., 9, 3 513, 35

French reports some interesting observations on the use of mydration a descloplence. A question naire sent out t many on thalmologists showed that 75 per cent employ tropine, and 20 per cent boma tromane in the cases of children while 90 per cent employ homatroning in the cases of dults. When homstromne is used, the power of accommodation is lost in about forty-seven minutes, while with the use of tropine, one hundred and thirteen minutes are required With the use of homatropine, maximum dilatation of the pund occurs in twenty seven min utes, and with the use of trompe it occurs in forty three minutes The general erage of tune re quired for the loss of accommodation shows that bomatropine is more quickly effects After the matifiation of eserane the power of accommodation begins to return before the aphincier of the pupil responds A D. Tracorr J. D.

Dunn, P The Tonernic Aspect f Ocular Disease.

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The uthor calls attention t the textic action of the crion boatiles and the relation of a purificative intestinal condition to ocular choeses. H states that thyroid numbineary may be translated into failure I the thyroid to protect the body against a source of toursmia, and that berredfore this been the custom t look for a recognized form of septic infection such as the text bonils, etc.

The possibility that an indocyclitis may arise from another source of tousenus, in the course of which hypothyroidism manifest has been over looked. As notable example of the fact that the

citary hody as pecularly response, to the effects of toxemic fore, Donn cites the condition known as chronic indocyclitis, and notes that closely allied it these symptoms are those accompanying later stitual lexituts in children I. the latter cases confirmatory evidence of a publishe issuit is often lacking. The results of the author's treatment of

parenchymatons karatrus in children, which includes rest in bed, generous det, and the adminitration of 5 gr of thyroid glund twice daily has strengthened his belef that this condition is mainly

toxemic manifestation

In addition Dana sidvances the theory that the condition known as a synpathic ophthalmis may be of tone origin, the form of infection being the intestinal struct. The causal agent may be supprobytic organism which becomes virulent only, when expected to a time element. In the presence when the contract of the contract in the presence appropriate, becomes puthogenes and completes the vincess cache in ferrading it turns.

In the treatment f forzemus arising from intestinal putrefaction the author uses a bename derivative chinethy longthoxy phenol, which destroys the potrefactive organisms in the intestince and allow the headliss odd to assume their normal char-

A B DYKMAN, M D

400

Chefrance, L. Injections of Milk in Ocular Therapeutics (Les mections de last en thérapeutique oculairs) Presse méd Par 913, 2221, 76

Protein therapy seems t have given to best reuilts in certain diseases of the ex-

Chemiss refers to a overlooked them on milk therapy in the Rousian Interature by S athlows Athluma. This uthor collected 34 cases of various affections of the ry which ret rested by intramuscular injections of milk Good results ere obtained in S (35) per rent). The best effects were observed in affections of the sweal tract and courses.

Ault asyctions have been of great benefit in processed, conjuncturities in the dult. Scrotikous strains a slao ery fa orably influenced, but in partner/hymotron keratities the effects are much less constant. The superious have no marked influence on the process of interstatial sufference of the corner. Herpes of the corners and the keratities coverses were enablishing some seems to be devocably

company mg ophthalmic zona seem t be favorably influenced very good results have been obtuned to rule arms, but in thronic unforcedits the sufcome has been less favorable. In infertions of the cye consecutive t impures or operations, the results

were excellent

In the techniques used by the author fresh sails in based for four minutes and then meetin in the finals or hard muscles as temperature of 37 to 38 degrees C. For adults the does ranges from 4 to 10 cm. In the cases of children Impher dosages are penerally meet as weak douge has this effect. The injections are repeated at intervals of two or three day. It is generally best to wait much the

reaction provoked by one mection has fully ask aided before making another. The total number of injections should not acceed five. The maximum

effect follows the first injections.

Although milk injections are usually not dangerous, I is well to be prepared for any gave tractice which might result. Some mections should not be given in the cases of persons who are exchecte or those with carchic disease, divisional strementerous, to be called the carchical section of the cases of th

Edridge-Green, F. W. Bome Carlons Phenemen of Vision and Their Practical Importance Mol Press 923 - exv. 34

The vestal purple is found only in the rods Therefore it as considered not eventual to vision because only copes are found t the force. The rods and copes dop rate thin layer of find which kept in place by the external amiting membrane The visual purple diffuses through this find and w distributed to every part of the outer layer of the retina. Usual purple is regenerated from the parment cells and most rapidly hen exposed to beht It has been possible to take photographs by means of the visual purple. A rabbit retina was exposed to a window with hers. The parts of the retine on responding t the light parts of the window ere bleached. The decomposition of the photo-chemical film sensitized by the visual purple stimulates the ends of the cours, a visual impulse being act up which is conveyed through the optic serve fibers t the brain When the hight is dimensished, the visual people is not used and accumulates

The movement of the after usage is due to a more ment of the eye stack or the compression of the globs by the muscles ameeting the phot chemical film There is very distinct difference between moving the sy from one object to another and moving an object before the eyes. There are an stages soted in observing bright object for short duration, due to the fact that cones are more sumerous in the loves and that the vasual purple must flow in from the periphery. The old theory that the rods are for perception in dim light is considered rong because it is braced on manufatoriests There is no ammal with only rods or conce in the The periphers of the retina is not color TELLIA. hand In dark adaptson the sy is not totally color VIRGIL WIRCOTT M D

Eshn, W. W. Asthenopic Reflex Manifestations Between the Ryes and Teeth. J. Am. M. Au. 9 3 Lext., 24

Kahn reports sum cases of authoropas due of theseased techt, in which infraction text shad been made very carefully the symptoms of cys strain and not been relieved by repeated simulations of stropine and the refraction was determined again with its new of stropine consistence of the strain reported that the recht were in good condition !

amination showed disease of the teeth. After the removal of the diseased teeth the symptoms of authenopia and neurasthenia disappeared.

Four cases of pain in or boat the teeth or gains are also reported after refraction the pain deap peared 1 one case that of 19-year old stemog rapher at was necessary 1 precently additional plus lenses for near work. Amon Wescort M D

Poscy W C. Alopecus and Poliosis of the Eyelids

J Am U Am 9 3 1222, 204

Power imports case of lopeca and another of poloses of the cyclids and reress the hierature. The case of alopeca is of interest because it was surhout local inflammation of the hid. I the case of poloses there was no bastory of injury or shock to the appearance of the discoloration areas from a few hours to several mouth. In severe cases of indescribits there may be blanching of the clib.

LeGrange, H. (conjunctivities of Anaphysictic Origin (Conjunctivite d engine anaphylictique) Prene med Par 9 3 xxx

LaGrange reports a case of conjunctivity which was due modoultedly to naphylans. For ten years the patient had inferred from severe attacks of unicons with seeding of the cycledy, chemona, and tithing of the conjunctivity. These also as case we describe the conjunctivity. These also as case we forcer A skin test is thin feel; postdered only bert as the conjunctivity of the conjunctivi

Wright 3 W. Solarization in Trachoma. 4m J Opich 9 3 279

Acting upon the principle that heat light and drying are mong the most potent bacteroides, the uthor has been using them as therapeutic gents in the treatment of trachonic The results have applications to the thera and the conjunctive centrated high from the run is employed when centrated high from the run is employed the possible and hen not possible the concentrated high from as described by

Concentrated solar ray, are much more potent on untress than artificial light forest cars must be exercised that the best is not too great. The length of time it will be said to poly the rays to one spot such as connect differ can be determined by testing or despite covered that such different control of the property is a speed of the property than the property length of the property len

A theory as t the action of the rays is offered. Their besterndal effect and the simulation they exert on the conjunctival plands causing beoption of the gran les are probable factors. The rays are piptied twice—ek. Rarely more than three applied twice—ek. Rarely more than three ap-

plications have been found necessary to clear up an ulcer. As soon as the gray ragged edges of the trachomatous ulcer present a clean cut deperation with a small leash of essels running to it from the conjunctival mergin the radiation is a stopped.

A B DYEMAN MD

Poyales, F An Epithelial Crot of the Cornes (Quist epithelial de cornes) Prog de la d Madrid, 9 3 xx 86

Trathelial cysts of the corner are extremely rare I an interesting case observed in the uthor' clinic there was a perforating traum tic lesion of th caling body with only slight symptoms of cyclitis The corner showed slight continuon which appeared to involv only the epithelial layer. Under treatment, the inflummation of the citiaty body de creased, but round transparent mass present i the corner which had the linical aspect of a trau m tic epithebal cyst. Later symptoms of cyclitis developed anex and the enthelial cost progressed t the extent that it deformed the eye and suggested a small partial staphyloma. The cystic distention of the corner and the citary lesson ultimately caused an inflammatory condition which led the uthor t enodeate the eye t prevent sympathetic disturb

Histologic examination showed that the trauma tism im of ed only the epithelial layer and Box ma membrane Rupture of Bo man's membrane was followed by hermation # A Bary.

Gowland A and Gallino, J A A Fixation Abscess in Case I Severy Iridocyclitu (Abceso de ización en us caso di midoccitius gra.) Rev. 1sec sold ergest. 9. Exx. y85

The patient, man of 18 years, received per forating avond of the cornes of the right of the lambus. The further evol ton of the case field to the dangones of trainants undoor, chirs. Attroprise warm formentations argum and mercural impunctions were ordered. The condition was such that enucleation seemed indicated. The remedial measures mentioned and dash intransacular mercitions of o c m of milk were without benchristly effect. As hast resort before operation the without made

usyctom of essence of turpenture to cause a matatoa abserse un the thigh Severe a symptoms followed but improvement in the ero was noted from the near day. The pain complet ly caused and vision improved in Locally the abserse evolved characteristically with the formation of a large collection if puis. The puis as drained By the annih day there was complete disappearance of the gro symptoms and the bacess in the thigh was in process of continuation. We A Bins. A

Chance, B The Etiology of Uveitie Atlantic II J 9 3, 2234, 528

Chance describes uvertis as an endophthalmia because, while one part of the uvest tract may be involved to a greater degree than the others there I not be build errors I the build even when one or pertoon tell famed Intracht and chrust ent reather term for the a me emulation. The es it on it potential of the come queos In time I harden tic lum be but slouther that wind If he my be on it chart then unglet to men them beinge it it k ich

the track mille so water to be tracted to has of there in less it were most commonly be t er the t tietha tifertieth ; ra of ge Itil more on mone for the tine les Hotheres onl or I all tel The most ormone to so of city to the total phil properties the cute I feel due un I i il freet mi

fever Affection of the corner 1 at in arm z lib the was from of rib it reducto the same!! (xxx \ Da OF THE W

Hektorn, I i Impaune R action of the Len (a-

11/11 21 1 3 Iberealt of th ther perferent to the th t in the precipitla test the le leven neer dust peries specif. It is the er it sur in the es thit dies of how any person specific leme t the the to christian of the en it is not les and leta cryst I u. a grum olera II y et u ner Lyperine t with t exctou lenses I presignies home that ach known or chalmost reactions h well with attlems serum aumm I know

I flort i produce le precipitus sa normal rabbit b injecting sol turn of a blat less has so t been then the try to res it. The se of rabbit personal injected ith other lenses him nor long ne allel forth rene cal production of percip Il for other length th t

it for r bbit len were being tested

The thorrefers t the perimert | Kaluma ta tex I to the suph I circ eaction of trouper of longer over. The directly arrest in estimating cerectly the misser m ni est tion of sasphyla is And ma determined the soft at the suph) lactic ra tions or oncerned there is no about a segu pecificity of the though In unuch a the ey tieues re embeyologic ily nd functionall

rel 1 1 this not surprising

And m found m ked 1 f rences in the range of the naphylictic raction of the eve trisper. The has most lim tel Next omes the even followed by the optic nery retin one distreou the the best f these tes it he emphasizes the til amp thetic upath line should not sage exched role t the alpigment The posubility th t ent us proteins of the eye by urise of their difference from the peat on of the blood go rice under certal conditions t general reactions of the n ture of self sensitiz tion of the body may be of

gre t suport or in ophthalmologo A II DYK M D Green, J. Factors of Safety fix the Operation for Catara t. J. J. very Stale M. 1. 1515

The ! kall or extra paul operation for the terror I of a cut ract is incomplete at lea or ran gament of lesthalst nateral Perotest m serial les bet refitte un inderet med bei ees the protected and the remain of the aterior capthe ma . Il on noted with the equeous art Lat 1 the belong the sheet Il the courts m ter lis of the tacky a nety it may process t Into or in local tris, penulal resident in local papel dense secondary cut ract, at second

n g' been dert blockergofth & rationand Much interest h been taken in the intra aparts ener time of 5m th of 1 with label year ever his met adhered intelly to be teef que from teplical questionau sent person speniel open la Smith at I Loui L as form I that of per rith mount t pool muon which maint

trot the per tl. I skel.

I the those of son the note poolst netbol. precision i present is erresule i nucellare.
I the interest of salet i the cataract operation

condition in licated to high blood pers are givena alluminum to m st betaken lato consulet tion and controlled previously for the removal of fact of in ection peoper diet or prolonged red I cave of bronk brenchitti the operation hos i le perfermed it acress benithe pitcellis b period t the le t armt tion. Person with this section and god patient procedulty should not be kept bed after the operation as longer than secessary I see of distinctes the strate should be stable sign I en before the catastact operation in

lettalen, II aves factis esphil operation stouttle ortest

If the result is pre-oper to conditions in the es the utbot at tes that cultures of the course. thal sac should be negative for treptococci and preventures of the colonies of the ple locoucus or acres bacullus m be present and there hould be poesible of this recent 1 ace tion and currett go of my ut cred of the pulpebral confunction empt ing of he meibornia ducts by th mb od fager pressure nd massage several day before the operation resolutated. The time of a a perior task tion of protargol ti we prior ti opera tion, uggested by Verboel is good touties for local treepes up et en repson may be verted by printing lipe of new actile collection of the Les of the lower hel purallel ith he pulpebral Preliminary recetom performed four I comit

sumphily the atraction may have the maturation of martipe lens and will lessen be da ger of post operati inte (pouleton performed from eight to t enry four bours prior t traction is a means of ripering a translute catamet rapidly squeezing is best owled by using spremium unstred of his retractors by layer by per cent

weeks previous to the removal of he lens will

non ocame under the conjunctiva ten manutes before making the incubon by grung a sed it o enema on boar before operation, and by voxing nervousness or haste in the presence of the patient Tringation of the anterior chumber it wash out remain is of certex is indicated except in the case of a known fluid vitrous or the press tation of troops

A bancellar bandage re nf red by Rug catarat mask should be left in place for severity its bours At the tune of the first inspection per cent stropine of a per cent protarged should be instilled. The brandage should then he re pilied t t o d), and the patient allowed to get mp. On the fifth d and the patient allowed to get mp. On the fifth d tenth day, the protein may be disch right from the boundary.

Initis and indocyclitis should be treated by local remedies and large doses of betamethylamin. Resorption of cortical masses is promoted by the use of warm compresses and disonn but thoun may of as an unitant if used before the fourth — eck after overation.

The use of silver sutrate solution instead of lunar caustic is advised V F Duny M D

The utbor 1 is great stress in the import need thereugh pla scale examination. If states that use less temportunag is not urged but in cruzat efforts bould be made to find the cause of the condition. The imma fields are the only, hursetenite findings of optic around due to decade posterior among these findings how in abodut recotoms. I light area of last section. These Divinity M.D.

Stieren, E. Neurofibroma of the Orbit. 1m. J.
Opinia 9.3, 76

The patient from bom the timor described as removed was see first three mo the pressous it the timor described was seen for the country of the supptions. We this time he show do 6 deopters of hipermetropus a the even affected so computed it the doubters in the other of large months lat the hypermetropus had increased 1 5 deopters on 3 soon had decreased shights through the hilds manufal mormal One of later the earing of pines, dopter other as necessary in and the color helds, erre give the redwerd. The form helds emission based on the first described from helds emission manufal mormal.

The us I method of rolling out of ctions discases and grarent conditions. It will discover and action of the discover of the one is made on the following finding () slight and communal in the following finding () slight and communal in the second of the return (s) increacuratis () those ording of the return (s) increaing hypermet one (4 diplopes, and (5)) expire phases i summation

At operation the orbit as entered from the temporal side after exection of portion of the orbit removed with the fingers. The postoper tive result as very saits factory. The hypermetropus receded, the vision and the excursion of the eye improved, and the condition of the optic nerve and return returned to normal. The pathologats report was neurofibroma. The author does not venture in opinion as to the nerve from which to riginated. Thousas D. Auter M.D.

Shaw H. B. Moore R. F., Bardsley P., and Others Discussion on the Differentiation and Prognoals of Arterioscierotic and Renal Retinitis, irch Ophik. 0 3 In. 8

This is an abstract of a discussion, the main points of which were as follow

There is no such close relationship between changes in the retina and disease in the kidneys as has been commonly supposed

In arterno-clerotic retinitis changes are prodiced in the arternes by the action of a slow potson, and because if these changes there are occasional slight hemorrhages

3 In renal retunits so called, there is more severe toxems which may or may not be frenal origin and may at first cause changes a one of renal origin and may at first cause changes a one coll but subsequently affects the other or eye only but subsequently affects the other or eye only but subsequently the subse

EAR

MacKenzie, G. W. Hendache from the Standpoint of the Ot logist Pen sylvania M. J. 9 3 xxvs, 360

Middle car suppuration rarel produces headaches, but when the suppuration extends beyond the confaces of the middle car beads he is one of the most ommon 3 mptoms

Headache my ocur in both acut and chronic mastodius. It is used by nal terd but may be be I teral. It is due by odoobt it the fiterable bacterial time finding the r) it they general circuit too and also it these same it mus reaching the d ramater along the counce of the peri ascular lymphat use and producing there in extradural irritation.

Headache from simple mastoditis the author believes in not especiall common. Onen a case of mastoditis, nimple or chronic, the perinstent head acke even though the mild one he is inclined to think of complication present or impending

The more common complications of middle car appuration of middle car appuration of middle car appuration of the more car extradural absects, personal absects, subdural absects, brain absects (superficial and deep) through the appear of the inferior personal arcumiscrated purefiel take for personal arcumiscrated purefiel the appearance of the appearance

Kno ledge of this fact should prompt the physician to kw any case of middle ear suppuration present ing the symptom of herdache as suspicious and as

ing the symptom of herdache as suspenous and as demanding an analyst of logic examination I summ rizing the author emphasizes the fol-

lowing points

1 | uncomplicated middle-es supportation.

both acute and chrome headache is not the rule and in those cases in which it occurs it is never pronounced.

s I uncomplicated mastoid emprema with insufficient druln ge besil the is firly common 3. In uncomplicated mastold emprema with

ample draige headache is never severe because of the m stold tarrely ement lone

4.1 every case of middle ear supparation, with or without mastold involvement the occurrace of head che should prompt the physicism (supert immed) t by one or another of the several complex toos referred t.

 Headrebe is the most common symptom of every kind of infracts | I complexition of middleea supportion, nd for this reuses its presence abould I a sile regarded ith supposes

MacKenzie believes that i the study of head aches the eye ear nove indilinoit specialist more pt than the neurologist to overlook syphilis as enployical or contributing factor

Glogan, O. Nicotine Poisoning of the Middle Earn A Preliminary Report from Animal Experimentation and Microscopic Findings. Largegeorye 9 3 xxxx 36

The a thor resieve briefly the history of the alcotine habit and it effect on man from the time John Neo, the French ambassador to Portugal, presented the ground po der of the myez Indian plant tobacco, it Queen Cathernoe de Medaci, in

Pris, 560
The report an introductory one describing the author's technique of experimentation on guines plus to purpose, and is in de for the purpose of

pigs nd pageons, nd is in oe for the p pi ci g on record the work already done

Glorau concludes by stating that acceline poison and of the inner ear in chemicaterized by certain publisher changes of the noctes of the cells of the cetibular gaugiton of Scurp, but he infinit shit this statement may require considerable modifies too when the final results of his observations here been obtained.

Mellinger W J Diphtheritic Otitle Medus-Cal forms State f M 9 3, 222, 3

Cal ferent State J. M. 9.3, xm, 3.

Twelves taxes of diphthent otitis medi are reported. Only one of them, as of the virulent type.

All of the patients recovered. The thor rates that the condition described is not rare although very little is found in the literature relative to it. There is nothing peculiarly characteristic in the ympioms of middle are infection due to either the virulent of the non-virulent Klebs Looffer broulder.

The condition ould be recognized more such a cultures were made routinely in all cases of middle ear infection.

O M Rorr VID

HOSE

Grander A. A New Technique for the Positive Identification of the Sphenoid Sinus and the Ethnoid Calls. J. Railel. 1933, 17 of

The author' work is based upon experimental work with dried skulls, in which the sphenoid and ethnoid cells were filled—ith opaque media

A special head rest as as-ed. The consisted at sheet of bulcius having frangular opening for the nose and attached upon frame in such.) that the b britte sheet could be securely held over a finholder or casset! The most ad antageous position

ere inclined planes of 3 and 7 degrees.

Rentigeograms made t an angle of 31 degrees aboved the upper border of the sphenoid summes to be on level ith line formed by the anterior border of the optic groots af the toper roots of the lesser wings of the sphenoid bore 1 the new

the anterior ethnordal cells are just below the frontal singles

In the author' openion the most shable had mark to obtained at an angle of ny degree. This is his formed by the optical grown, both in covered shaped and curve downward on exthension sade toward the optic forames and anteror knowledge processes. At this angle the positror ethnocklot citle he above, and the anterior cells below the shadow cut by the model to tenhance book shadow can be the model to the model to the new the shadow cut by the model to tenhance book.

I the lateral see the line produced by the guester g of the sphenoid bone separates the sphenoid uses from the posterior celimoid cells. The auterward and posterior ethicoid cells are fairly accenticl denoided by line arbitraril drs. along the shadow cut by the posterior border of the orbital process of the main bone.

A cureful stude of the thirty was recuternourasms

published ith the article ill repay am one interested in new technique t show this region

The practicability of the method has not been proved by large umber of climent cases buch has a good to operation but its sucfulness has been demonstrated in limited sumber

C II HENCOCK, M D

Visionert, D. J. G. Chronic Catarrin of the Nesopharynx Larvegare)r 921 xxxxx 807

The author discusses the ck. go that has occurred in the past forty ears opinions regarding the prevalence and importance of chronic cutarts of the manopharyar. It gives common of the are concerning to etiology high character the bid by Macken not in Stay, by Robinson, and by others.

In Kohason opinion catarrial disthess is the determining factor in their cases. Niemeyer held that assal catarria is local in its nature and cause. MacKenne thought that chrosic irritation as of dask, as the chief factor.

Wishart states, "What in chronic post hasal catarris, as originally described, a disease which as distinct entity has disappeared, not through a change in climate or deet, or hygenic surroundings or the absence of dust bet because we classify our diseases more correctly, and more unportant stills.

becare as pyrecate better and are more fully determined t secure partition of somma insant requisition for our patient. Scanage the posterior ends of the inferior turbinate and resecting the express may be come more than a ghit elee to effect this charge because with free mans breathing the mem beings of the masophary art do not so. Il in discrete as where passed obstruction emiss, and in other case our improved technique for posterior throughts.

and empyema of the spheooidal same has prevented the onset of post nasal catarrh

As a have learned t recognise that a climp of the lateral walls of the nestophary not or a granular appearance of the posterior wall of the same region in occasionally due t causes boarded leacharte so we must recognise that he large of dropps produced to the control of the same region of the same

MOUTH

Ramstedt C. The Operation for Complicated Harelip (Zer Operation der komplicaten Hacen scharte) Zentrold f Chr. 9 xhx, 555

The separation of the bp and cheek parts from the jan with or without operative loosening of the intermaniflary hone, may cause ery serious loss if blood and lead t deglut tion pneumonia. Therefore for the last t years Ramstedt has sought to force the projecting intermanifery bone back by manipula tion. He tried this first in case of it gle harel p The child bend being held by an assistant, the mtermanillary bone is grasped between the thumb and index finger loosened, nd forced back by pressure and shaking the hp being protected from pre-ware b pledget This procedure high re quires t the most from one t t o minutes, is re perted the pert d v til fter four t six sessions, the projection has become so loose that it can be beld back thout tension by the suture of the fresh ened margars of the cleft and no separation of these mirems from the alveolir process is pecessary

In its cases good results were obtained. The mo procedure has now been med its success by Ramartedt in t. cues of double hirefur. The none secured to be less muchapen than fire you Ba deleben open operation. Survey as (2)

Luzenburger, A. Pinatic Surgery of the J w and Hard Palat (Bei range zur kiefer und Gaussen platik) Deutsche Zitche f Chr. 9 clum plat

The thor review briefly the various operations for the reput of defects of the jaw and reports 100 cases of free intoplants in three fourths of high

satufactory results were obtained. The cause of failure in the remainder was if fection by bacteria latest in the sear tisson. The leasons were guinhot wounds. To obtain greater resistance, he embedded the trimingl in in tissue known to be aseptic and having anch wascider stopply, the sternoclendomistion muscle. At the end of eight to ten week he placed the trimiplant with the mobilized, attached pacer of muscle. I the deflect in the lower ja.

The fear that large pieces of bone in muscle may be mechanically burdensome in unfounded even when they extend up over the clayer. The displaced portion of muscle surved exity contain note than half was separated. To disrify constant nutrient arteries enter the upper half of this muscle.

Of t enty eight such transplants, twenty five besied in readily I to cases consolid ton was not obtained because of the smallness I the transplant. One transplant was expelled because the exprintion from the mucle bed was too extensive

The technique is as follow

ture sat

Si to. The transplant with attached perconteum in taken from the this or the creek of the illum Holes are borred in the redds. A longitudinal incision is made in the anterior boorder of the aterioromas tool muscle beginning two fingerbreadths under the angle of the pia and extreoding it the day leading the mode with the control of the transplant with the transplant is laid. The muscle is then quirred over the transplant with fine extent.

Stars a This part of the operation is performed eight weeks after the first stage. If it were delayed much longer there ould be shrinkage f the transpla t from brorption. The previous incusion is reopened and the muscle is mobilized by separation of the sternal a d cl scular parts partly by blunt dissection, partly with the knife, as far as the center or further until the tra splant can be brought into the defect without tension. The place from a bich the transplant was removed is closed and the skin mer sion then lengthened in the form of curve or with an acute angle as in a the defect. The fracture ends re exposed a periosteri pocket is formed (Lexer) holes re-bored a d-the transplant is freed from adherent muscle fibers where it approaches the ends of the jan. A strong catgut suture is passed through each I the holes draw taut and tied nd the free ends are pushed int the perioriteal pocket I ma) cases the ends were held suffi escutly firmly by the pocket without other fixation The soft parts resutured the catgut A small rubber drain is then placed it a distance from the fra

The disadvant ges of this procedure include the complicated ound relations in the second stage the excessity for narrows in the second stage the excessity for narrows in the second stage and the great care necessity; to exceed separation of the transplant from it nutrient pechale. With grant it the disastages the other states that this indirect autoplants gives much better prospects of uncomplicated healing to the damper of infec

tion is shight, even when the buccal cas its is enemed Lexer' method of preparing the field of operation by excising surpleious scars is unpercently the memetic result is good there are no sharp projections. and, if desired, skin may be included in the transrilant.

Rather long pieces of hone should be used, and the drill boles must be sufficient! large The mobile sation on the under surface of the sternocleulomas tood muscle must be performed a th care on account of the proximity of important vessels. Submanillary stands and homph slands may be removed if they are to the w y The outrient pedicle must not be compressed by fixtion entures. Lucation of the bend toward the side operated on seldont proce-The fragments are immobilized by the Schroeder Bucgel method with a slighing splint II there are few feeth, an interdental aplint may be meeted and the 12 a bound toesther

In most of the author a cases the number monds were rather large. In supeteen the defect was in the horizontal portion in t o in the angle, in t o to the ascending ramus, and in the in the chim Lakon wa firm in from one and one half t eacht months. When there re latent for of infection this method offers greater accuraty than free utoplasty. It can be used also on the extravation in

the treatment I pseudarthroses The author's procedure for the repair of large defects of the hard tolate renders marcranty the use of a rubber obturator. The technique is as follow

I'm at stage A double akin flap is formed from the lateral cervical region beyond where the hair grows and a prece of skin and platy one muscle con long and 5 cm ade extending from the region of the angle of the lower usw to the classele. The base of this flap is bore and somewhat broader than the pex Under the clavicle a second mere of skin, 14 cm by 5 cm is taken. The connecting bridge of this flap also is above. The lower flap is bushed up under the upper one and the wound sur faces are setured together. The flap thus formed non hangs from the neck and rests on the shoulder like an epaulett. The ounds left by the removal of the tierco can be easily drawn together

Second steps In the course of eight d 34 the lower connection is gradually divided and embedded in borisontal messon made near the angle of the mouth

Thurd stays The angle of the mouth is ant or the check is opened close under the attachment of the flap and the flap is t med in and intured about half its coverniercocs t the irrahened opposit side of the political foremen-

Faurit state The connecting bridge in the month ta excised as far as the outer aids of the chock and the transplant is stitched to the part of the printal defect which her opposite the cheek momen

General angethesis is necessary in only the first stage. The others require only local amenthems If the defect as very large, it is best to slit the angle of the mouth as otherwise exact suturns as d flicult If she is made in the vertibulies or between the lower paw and the check (won Englishers, Pro-Kapple) there is diager of forener the boal perv and causing disadi satageous tendes so the The tension is lessened by prehautary as plantation near the angle of the poutle. To freien the palatal defect broad adbesson surfaces are made

1th knives having curved blades. Setungs a forwith thin copper wire and alleworm get with

The nertod bet een the first and second starts stateen days, and that bet een the second and thad from three to four weeks. During this time the fire as kept sughtly compressed between the cardioard splints to prevent rolling up Before the third step a rubber prosthess is norn to prevent the tests from meeting I the fourth stars wide excess of the pudicle of the flap is done to give reflected depth t the conjunctional fold. A bone plate taken from the netwo or the arappile and shaped like the malat may be placed in the double fold and allowed to heat u

The uthor cared six cases by this method, fire cases of ar unjury and one of lostic defect which had been operated on a number of times. Bloost sec cree Speech is good in goet of the absence of the erch, and the nationts are able to eat even hard lood th case. Finds do not escape into the most cay its or the antrum of Highmore Lires (I)

Carcinoms of the Teatre (Du Knettner II Zangenkreis) Therap & Gegens 1912, has 444

Cupter of the top me occurs much more often in men than in somen. In 160 primary cancers the relation as 81 9. As main cames are to be can sadered tobacco and a philip and the combination of both Leucoplakia precedes the condition in cent of the cases. Sharp-cornered teeth and Ill fitting plates faulty oral hyperse ad the est sumption of poor hiskes are also etiological factors

Touttoe cancer manifesta taell only rarely before the forty fifth year Hantologically it is almost payement-epithelium cancer cybrider combelium cancers are extremely rare. As a role it ttacks both edges and the base of the torsee. Sur face carcinomata springing from the pavement spe theiram of the mucous membrane and aircrating early spreading superficially and don ward th wall like raised edges are more numerous than deep tumors originating in the glands of the miscous membrane and enthout plans demarkation

Tongue carcusoms grows through the tongue by continuity, attacks the floor of the mouth, the ja and the pharyax, and finally con erts the mouth

लिया प्रका CANCEL ICE

The early lymphatic metastases are due t the somerous tymph vessels in the tongue the great number of lymphatic glands, and the muscles brch manage the cancer particles rate the lymph channels Of unportance is the fact that the lymph of either half of the tongue drams usto the glands of both enter Often in aminteral curemonia metantates are

found in the hymphatic glands on both sides. The occurrence of met stame in the inner organs is iem frequent

Among the early s) mptoms is violent pain later hemorrhage is seldom beent. The early diagnosis of this destructive disease is very important. In every case of suspicious odule or ulceration on the tongue a test excuson must decide. In the differ entral diagnosis ulcers caused by rough teeth must be borne in mind Of the greatest importance is the demanon as t when a lencoplakis degenerates int

cancer I the differentiation of cancer from the sequelie of suphilis it is t be remembered th t gummatous foer are usually multiple while carranoms is single and that cancer usually develops on the edges of the tonene and in the pre epiglottic region hile gumm to occur most frequently in the middle and on the tip of the tongue. Hemorrh ges and pun are rare in cases of gumma Swelling of the glands suggests cancer The tough layered bottom of a gumma is easily removed thout causing bleeding while cancer is necrotic and soft and bleeds easily

when removed

The differentiation of cancer from tuberculous, the very rare ctinomy costs, and sercome is usually

The progress without operation is ery poor Operation ha good results if the diagnosis is mad early and even in ad anced cases permanent cures ha e been obtained by thorough operation operation is al.) performed under local anses thems. It consists of two parts, the thorough removal of the cervical glands and the extirpation of the tumor I early cases one stage operation is possible but in others to stage procedure is necessary The lymphatic glands of the region of the tougue re removed from a cross incision. The

benental, submanillary and deep cervical glands on both sides are removed. The lingual artery on both sides must be larated or in advanced cases. the external caroud on one or both aides bet een the lingual and superior this road. If her the turior is favorably located it may be excised by cutting the cheek after the m thod of Jaeger When the tumor occupies the base of the tongue and when the condition is dvanced the lower manilla must be sawed through If the floor of the mouth is also affected the median sawcut of the maxilla after Sedillot Kocher should be considered. For tumors extend ing far t the rear lateral as ing of the maralla by Laugenbeck method as modified by you Bergmann is indicated. Since permany communication be t cen the large throat wound and the oral ca sty must be prevented by all means, thus part of the operation th the sa cut through the maxilla should be performed t second stage few days later. The patient may be allowed to get up the day after the operation

The mortality has been considerably lowered through the use of local menthems. I the author's classe it is 8 3 per cent BILLY (2)

Borden C R. C. A Clinical and Pathologic Study of Tornella Subjected to the & Ray Besten M

Williams, F. H. Prompt Action of Radium Radi ations in the Treatment of Small or Large In fected Tonells and Lingual Tonella. Better M.

& 5 J 10 L drunm, 407 Borden made a study of the clinical and patho-

lone effect of the \ ray treatment of diseased tonuls a th the co operation of Butler the roent genologist. The technique of W therbee was fol loued Sixteen cases were radiated, and from all but to of these Borden resected the torsul. With regard to the findings the following tatements are made

During the times the radiations were being given, man of the torsals seemed to be smaller and more pormal in appearance, but when subsequently removed by dissection, no real change in size appeared to ha taken place

After radiation many of the tonsils appeared to be normal in size and color but at the time of operation a n inher of them were found to be filled with put or cheen debru

As method of reducing bleeding and assisting dissection at the time of operation, radiation is

By diminishing over-secretion from the mucous surfaces of the throat, it decidedly decreased the possibility of postoperative pneumonia or Jung abaces following throat operations

In cases wherein diseased totalls may be justly suspected of producing secondary infections of the conts, heart, kidney or other important occans ray radiations are made must

In contradictinction to this unf vorable report Williams states that radium radiations produce prompt improvement in the general condition usually in one or two day. Some cases respond after four treatments given t intervals of about two weeks Williams found also that lingual tomals. adenoids, and hymphoid tuesse on the pharynx re spond to radium emanations O M Rott M D

Rehn, E. The Treatment of Lud in Phlagman by Excision of th Submarillary Gland (Da Behandlung der Ladwareben Philogenood durch Exterpation der Glandula submanilaris) Alia Il chuach o

For the treatment of the deep submanilary or Lud ig phiegmon, Rehn dvocates wide openi g of the focus of infection by an iocision from the outside In three cases high ended fatally he found that In following the method of Jordan and Voelcker he did not do enough. In that method an increson to made one ingerbreadth below and parallel with the maxilla, and after division of the skin and the platysma muscle blunt instruments are used in proceeding downward to the infiltrated trames on account of the proximity of numerous vessels, and the fibers of the mylobyoid muscle are severed with care

Rehn believes that I all cases the posterior capsultr space of the submaxiliary gland, the floor of which is formed by the hyorlowus muscle should be exposed as in lighting the bigurd stery and this gland should be removed the the adherent lymph glands I case of very severe infection the procedure gave quick od complete cure R h rec ommend it a meeting more fully the and pathologico natomical conditions thin the method beretolore employed

K tvirt O To Phorymees Turnors (Zwe Nasen racheura migmoreu) Carep Uh Lerk 192 bu. 554

These t more occur only t the time of pubert h we the character of embryonic tessue, and are treezilly mixed furnors such a goofbrorest mysofibromata to Spontaneous in obstion of this kind of tyrecal fibroma has been observed, this being due, perhaps, to obliteration of the greatly enlarged eins, and possibly also of the rience, by the formation of hyalme thrombs high lead t nectors of the tamor to me KINDS (Z)

MICK

Merzan, G. Simuses and S. elli &s in the Necks of Children, Bal M J 9 1

The uthor has never seen actinomy costs of the neck in hikiren. Syphilitise glanda re (aur)y common and will dis representation to Aphilia treatment Median wes in the neck of the child are careed by perantent thyroglowal duct Tuberculous glands or suppres are not found in the milline. The me dua univer are sever pogenital. I desecting out these ducts prelim! my injection with methy? rue blue is of exert assistance

Branchial citta and fixtule are more common of the left aide. The uthor his sever sees complet fatula. A branchial cyst is more serious. A cine is mentioned a bich the cy t delivered steelf stact

after supple increson. There was no pedicle C) six by gromata or atheromatous branched cysts ms be mustaken for r als when in the sublingual remon, but are much more serious ad difficult ! cure. They may become ery large and cause death through pressure I one case death resulted from obstruction of the tracher. Is there or is tend t dis preut apontaneous operation hould be just off as long as possible

Glandular fever with large swollen glands in

cleur un under expectant trentment

Primary orthogrant growths in child neck has sever been seen by the a thor. Secondary gland alar involvement from arrows of the choroid spreading by y of the parotid is not uncommon A collarged and cystic thy road is more common in

girls than in boys Mention is mide of the case in which repture of thirord blood exel caused andden enlargement—th dyspaces from pressure on the trackes

Adents is the most frequent cause of neck swell ings in children, but is not so common as it

tharts severa years ago. In Sorpe cent of the cases of t berculous glands there is an inherited tendency Glands may be lassified int () those drawer ski are is and (s) those draining inneous membran reas. The latter re those buch become taker hile the former become enlarged from progenic infection. The posterior aricular shad a little girl became t berculous from a scratch with comb. This hild had spent most of her true in room here her hench. as sloud dynne at tuberculo-is of the I ng and intestines

Faberculous gland are more common on the right aide. The submazill is is the gland most commonly feeted Retropharyneeal od lateral pharameral been must not be overlooked Love teeth and infection bout the feeth are a very fertile source of tuburculous infection. Of a ooo children examined for excluses of the need in Hally risk per cent had poor teeth. Cook found that is mo-t aves acrapungs from the treth or the pulp con tuped tabercle bacili

(-lands re of a infected 1th taburds bootle from the tonsils and adenoids buch in turn often if not al | i dern their infection from the torth It is useless to remove them unless the infected teeth are leg removed

ith it berculous disthesis should be go en the best of h grenze care, kept y freeza cases of phthese and w tebed carefully after in fections diserves especially metales and booping cough I ocal treatment of the gums and teeth and tomula hould be given and such tonics as are advasable. The local application of ollowish points recommended. Glands high remain enlarged or box agms of soften ag should be removed

MARCO II Ilos et MD

Marigue 1 Fifteen Cases of Thymectomy be Nurslind if a méctouse les le nourress al pris quante can personnel) I it franca-leight de her of he

The luci approximate pertrophy of the thymus as disposes. But is referred by the atting posture and increased by the recombent position. Operation is indicated by tracks of affocition II the chloro form amenthes. Manque dos un extracapanhir th mectomy by the technique of \ an and Obvier This operation is ery simple and as soon as 1 if finabed the child can be taken home. The suff cution is immediately and parimanently relieved

Jackson, A & and Jackson R II The Relation of the Beast Metabolic Rate to Discuss of the Thyrold Cland in / Surg 9 1 ren 46

The basal metabolic unit is the most aluable dismostic aid which his come int was since the advent of the \ra The arying results reported to the many different types of apparatus have served t discredit this means of diagnosis but in the hands of the thors the gasometer method of Timot has proved most attributory and accurat

In the clinical interpretation of results = o per cent is considered normal, and httle significance is ttached to a rate of + spercent Although the rate may run as high as 14 percent, it is rare for the read me to reach more than + 100 per cent The opposite condition is found in myxordense. In which the basal metabolic rate may drop to -40 per cent or less

In its relation t diseases of the thir roed gland the metabolic unit is valuable for its negative as well as well as its positive findings. The cases of young neurotic mris with a rapid heart, palpitation and tremor, who present symmetrical enhancement of the thyroid, with thrills and bruits, are often difficult t diagnose. The establishment of normal rate in these cases at once eliminates the pecessity for sur meal interference

In considering the patient behty to withstand the shock of operation, the basal metabolic rate about be connected merely as one of several factors, including history (impending crisis, the condition of the beart, the loss in strength and weight etc

Why some nationts with emobithalmic goiter are able to carry rateo over + copercent with greater case than others are ble to carry rate of +60 per cent is not understood. Exophthalmic gotter progresses by a series of crises. If the patient fives through the second yes a th two or more cruses, permanent invocardial and renal descriptation may result. The a thora do not operat, while the curve of hyperthyroidism is many rapidly or hen the patient is on the verge of a crisis. A lower reading may be observed in patient pproaching a crass than in one who has recently passed through crass but the operative risk in the latter case would be less Rapid loss of eight vomiting diarrhoss, ad anorems ware of cross and should be given more consideration than a low basel metabolic rat

The others use the quadroceps test, in which the patient mounts sten athout holding outs a sunport, to distinguish patients a th true hyperthyroid um form those without it. The former falter and seek support mounting the step and in advanced cases are eatherly unable to mount it

I early exophthalmic goiter operation may be performed with fair rink when there is only moderate on of eight and strength with a metabola, rate below + 50 per cent, regular pulse not over 140, and shight or no dilatation of the heart

In adenoma tile hyperthyroidism symptoms of hyperthyrodism usually do not develop matil from fifteen to t enty years after the appearance of the adenous and persent for bout three and one half years before a surgron is consulted. In these cases cardiac and renal damage are more serious than in excephthalmic gotter and the surgeon is more con cerned th the ability of the heart and kidneys t functionate than a th the possibility of postopers tive hyperthyroidism. In this type I gotter the everage metabolic rat is +35 per cent, whereas in exorphthalmac porter the verage is over + 50 per cent

Thyroxlectom; cure hyperthyroxlum almost un mediately

In severe cases of exophthalmic coater the patients are subjected to rest in bed and two lumbons at an interval fa week or more. W thin ten days the rate usually drops to + 50 percent. Two weeks after thy mulectomy the rate drops to + o per cent but in only shout one-third of the cases does it return to normal in this time. Within another two weeks the majority of rates drop to normal

Endemic Golter and Cretinum, and Their Prophylarie (Ucher endemache Struma, Kretmerous and thre Prophylane) Klin Widnischt rin, 2075

The prevention of gotter by the administration of small doses of fodme, which is now being so much discussed, was tried some time ago but was abati doned because it was not known how t would the dangers of the treatment. Our present efforts in this direction rest wholly on our experience with regard to the effects of sodine rather than better under standing of the nature of router H ever Hun nker' hypothesis timbuling goiter chiefly to a deficiency of soding in the food deserves considers

The author discusses the relationship bet een coster and cretinam in detail. It is most commonly beheved that the functional bases of cretinum is a The anatomical findings in the hypothyrcous gland in sd It cretms apparently support this view as they she atrophic, degenerated tuene in one f rm or another. In the author's oranion, thus anatomical picture is a secondary phenomenon without againstance with regard to the changes charac tensitic of cretinum and the frequent occurrence especially in young cretims, of large gotters present ing the histologic picture of stimulation-roiter with increased secretion justifies the conclusion that the increased secretion stands in causal relationship t the cret man. Proof of this he sees in the splendid results of strumectomy on young cretine

In the solving of these difficult problems the patient age and the relationship between the thyroad gland and ther endocrate glands must be borne in mind. Cretinism in the absence of gotter the author ascribes to the increased secretion of gotter in the parents, which is lways to be found in such cases Resection dissection of the thyroid gland, and the administration of sodine are similar in effect Why this is so has not yet been explained

From the experiments in the administration of sedime as a prevent of gotter begun three years so, great improvement in the public bealth may be expected CIDALICE (Z)

Troell, A. The Structure of Golter with Particu lar Reference t Basedow' Disease (Ucher den Ben der Strams, mit besonderer Berneckschiegung Morbus Basedon) Forth Steam Lock Sedick Semment 012, ahm.

This article is based on study of suity t of operation for gotter the case histories and microscopec findings of which are reported a detail The internacepic findings are about in sitis share unusually sing photomerographs it is a determined unusually sing photomerographs it is and extended that in 30 per cent of the cives there are undoubtered; an homenative just the follower in its the epithels in of the follower is skew it and recess formations. In the follower in the follower is shown in the follower in the follow

De secretion bith in half the case can be treed 1 be epitheli relia p intendri in the proposicional cases of B welon a due to diff r in statuling resitates from the normal secretion. While the latter status red it association Multiport the contexts of the follicle in the intered conditions attribute (inferenchenical transform tion). Small cell is distration was found in on part at of the critical status of the diffuse tonce form of poster but it ould not be determined. Deliker thas in respression of tators.

cation or of infection.

The pathologic hanges pipers in such a large percentage of tone god its that they may be regarded as characteristic of B section dies is for some cases however only one of the finding mentioned in noted.

Kessel, L., Lieb, C. C., Illymen H. T. Lande H. Atudies of Emphthalmic Gelter and the in-robustary Nerrous System. A Study 1 Fifty Consecutive Cases of Exophthalmic Golter July 1 Med. 9, 1 KM 413.

The authors give a detailed account of the course

of fifty cases of fully developed exophilation; porter in which no specific restinant was instituted. The course of the rymptoms and board metabolism. It does not not controlled to the course of the

Forty-one of these patients as been socially assocosonically resistent Of these trents as was conrestored ithin for mostles, as the same conrestored it in the control of the control of the line between appartly of case economic rest it no may be asticipated within air mostles and in farmajority within four mostles. The sither expanation that they refer to economic recovery. Supplied in the control of the control of the control of the latchy-trails our excitor and the control of the latchy-trails our excitor and the control of the patients are not corred but their disease as as stepd arrest. The restoration of forty-four of fifty patients to common even cry is such a short time is saffored to emphasize pointedly the tendency of this desire it apontaneous arrest in the vast majority of an tances. Sentence, VID

Urban, k. Twenty Two Years of Golter Sorper
(/ considerance Jahre kropickerstys). Les mil
f Chw. 9 5,1 50

The author reports has a presence in the treatment of 500 cases of potter during period of test its 5 etcs. I every cue morphase per and the operation was performed associal natashess in deced as the 5 per cent amounts a make it to a many control of the control

inserted for t. nit four boars.

In cases of carpothalane poter a uniat ril rection as done it highing of the appropriate throad rile on the other and done in the cases reaction of the thin man as done in adultion Sik.

I case of ry extensi rection (four fifth) and hen hipothyroidans as implicated moder the beautiful from voung person as implicated moder the beautiful and tables.

never occurred I once I spare the parathyroid artery the thyroed artery as never legated on the frank, but al 1s in the plane of the increson. In none of the cases in lach this method was used and a operable thet as go en for the first eight d ys ere there any signs of tetany In 4 per cent there were larrageal symptoms In per cent these ere dos t paralysis of the recurrent lary ageal nerve and in a per cent t cedema and harmorrhages. In boot s per cent of the cases there as homeness E en belateral posticos paralysis may disappear esturely After the operation the temperature often reached to degree C. There era () deaths, mortality of o 8 per cent Light per cent of the patients were cured. A recurrence developed in . per cent. I space of maked procases of strums assigned cedures the results ere poor \osserstrix (2)

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Steiger M. Can True Epilepey Be Carad or Benefited by Rocatigm Treatment? (Lam die genung Lyskyne durch Rocatigenbeimbing einer Heilung hav einer Bewering entgegrogefocknitwerden!) Schrein weil Richards 9 h. 14

The author treated fifteen cases of true epslepsy by total irraduction of the brain. In some of them striking improvement as regards the frequency and the seventy of the attacks was noted. However, the number of cases it too small and the distriction of the treatment too short to warrant a final opinion. Williams (2)

Divertination. P. The Repair of Defects in the Duraand Maill; with Particular Attention to the Persanent Results in the Prevention and Curaof Traumptaint Epideps by Repair of the Duraby Free Trainsplant ties on the Tety Theory (Lebric das I ratis on Dura and Schoelischeiters, unter beausofers: Berockanhangung für er transplant of the Properties of the Christmaticken Delpress dark Department om free transplanterion Fettyrsche). Both 18 Christ-9 cares 641.

There is an element of uncertainty in every method of treating epilepsy because the pathologocanatomical conditions determining the disease are as yet unexplained. On the one hand we re wiged t open the skull in the mininer of wal, and on the other t correct deletes by plastic procedures.

Observations over long period of time are cere sary to determine whether or not plantic repair of a defect in the shall contributes I the curv of epideps. The those therefore reports cases which has been under observation for from three to ten cars after operation. The repair of shall defect to necessary because grideptic tracks may be induced by area toom in pressure in the open shall. Tension on rigid size has similar effect, spontaneous bony, fifth goot of shall defects us ere, nece.

For covering box defect free boot transplants too as used almost extens 1, in Lexity a dime. Larget defects were repaired with boot taken from the tibit, and the them by placts of loos with perositeom trached taken from the external table or the cunity of the defect. Subsequent receipting examinations revised that in the case of defects covered in those from the external table the loss of bone by bompton was frequently greater than the new box for owner from the revised defering the consistent variety of the present of a transl table. Her box on month soft taken place transl table, ther box on month soft taken place.

The thor emphasizes that the transplantation hould not be undertaken until harmorrhage has

been completely crested. The transplant should be as thick as possible and should fit into the defect exactly. If antibores persosteum has remained over the defect, the transplant should be placed with its persosteal and near it the brain so that it will be covered by persosteum on both sides. If the persosteum over the skill defect has been lost the transplant should be placed with the bony wound surface next it the brain. In order it obtain the desired curvature it often necessary to saw the transplant across in a number of places cutting through as as far as the presouterm.

The sear in the brain is smally excised as completely as possible, but when the sear is very deep the seattred dura is metrely separated from the lamma stries. The delect in the dura must be filled out in such manner that occational adhesions between the orface of the brain and the dural transplant will not form again, and the closure of the defect must be sufficiently resistent it withstand the initia

cerebral pressure

Firely transplanted it is employed as the most suitable maternal for repairing defects in the dura. The inclusion of fascia in the transplant does not appear to be essential. At operation the bony defect is usually enlarged: an extent which exposes the margins of the dural defect for about o 5 cm. the scarred dura then being separated from the margins of the bony defect. The thickness of the flap of fatter tissue to be transplanted a recknored from the axis of the defect caused by the sinking in of the brain. Recently, the plastic operation has been carried out in two grages in all cases.

The repair of the dura is best done air months shire the wound has healed it must not be delayed until the picture of changes in the brain caused pickeps has become established. Foreign bodies found in the scar must first be removed the plante operation being postponed. The second stage the repair of the bony defect should be performed three months after the repair of the dura.

Subsequent examinations of cases showed that the prospect of cure or improvement is not particularly good of epileps) is alteredy present there were only fire cures in thirteen such cases. On the other hand, there is a good prospect of preventing the development of trainmate epileps by phasife repair of the shall subsertable. It the proser time

Scorenicar (Z)

Rivarela, R. A. Hydatid Cyst of the Brain in Children (Los quertes helatelicos del crebro en los mios). See as mid 9 3 xxx 37

In the Chikiren's Hospital at Buenos Aires, Riva rola has observed twenty two cases of by dated cysts with the following localizations frontal, 3 fronto118

parietal, a temperopanetal a occiultorametal, a occupital a nan-tal 8

In the diagrous, rocatgenography of the cranial ault, examinations (cerebrosomal fluid and blood, and laboratory reactions are of no value. The Polisk \cisser trephme puncture and pneumoentriculography are not practised in the Children Hospital other methods have al ays sufficed for

an exact diagnosse

In the absence of any know specific treatment of hydated cysts surgical operation has been dopted as the only efficacious method in these cases. The operation is performed as early as possible. In the evacuation of the cysts great care is taken to pre-

vent contamination of the autrounding tasses Of the twenty-t o cases reviewed t ents one were operated upon Light (18 on per cent) na tients recovered definitely and thirteen (6 o per conti died. Of the letter handled treasurence from five months to one and one ball years after the operation. Only in one of these cases was the cost smountive.

Poetzi, O Localized Symptoms from Lesion of the Left Parietal Labe Observations in Case of Brain Tumor Treated by Palliative Decomsion (Leber die Herderscheusgesch bei Lacson

des liaken unteren beheitellageren. Erfahrengen an esacta pallular (representes Hustamor) Med Klus Q 1 21E, 7

For three months, the national a noman of a sears, had had severe headache secrated with progressive loss of mon leading t almost total closed and as there as puls in the left ear tumor of the left subangular region was suspected and decompression over the posterior part of the left parietal bone was performed is soon the dara

as occured the brain protracted I allowing the operation there are rapid improvment of vision but on account of the progress prolapses the syndrome of destruction of the cent

in the left gores angulars of the right handed de eloped Lumbar puncture did not influence this a ndrome which was caused perhaps by harmor thage during the operation, but the imptoms de creased when the prolapsus ruptured and decharged

cerebroqueal flow in considerable quantity From mucal analysis of the symptoms the a thor comes t the conclusion that the specific action of the gover angulars is the transformation of external movements and directions of mice int internal reual movement and directions, this explaining among other things, the raythm of motion

in writing

Resemblishing B. A Care of Turner of the Cere-bellions That Gave Neg thre Results t Tests of the Labyrinth and Labyrinthine Tract, Loren [merape 9] EXTEL 57

Reserved the reports the case of on anothly boy softening from severe headache omitieg and an steady gait When standars, he had troken to fall back and ad to the right. The left ever the red mternal strabesmus Later the patient became drower and there as severe pam ath shight tre derness in the right frontal and parietal regions. If made loud and frequent outenes. The rate became alon and omiting more sed

The purula were normal. There was no averagemen The en ground were normal. The referes were normal its the except on of shirth necessary Love Jerk on the kill sale. The laboratory Indian and rocatgenograms of the shall were perstine. The where blood cell numbered 11.100 The cereberpanel fluid was clea but he vy with albertas A bealed perforation of the membrana tympus er each side was found. Turning tests ad cabox tests abound reacting labyrinths and labyrinthme

tracts. The he man was rood in both cars. The condition was di guored as d' to a recordur situated in the upper worm of the cerebellion and invaring the superior medullary fum

Postmortem examin tion of the brain confirmed the clinical diagnosis. Pathologists reported the proplient t be a large smoulle cell sarround

W B Stur, MD

Bledi, A. The Physiology and P thelogy of the Pituitery Body (Ph) solver and Pathyl on del Hyperbyses Munich Bergmann, o

At the I ent. fourth Congress for I ternal Medi croe to Weshaden on Ipril 16 o plet review of the present 1 tox of the an tom) and the normal and pathological physiology of the patientary bods was at on. The most uncortant Potate brought out in this orl re follow

Instantically the primitary hady consist of feet D rts () the terror lobe (rurs dutabs, preby pophises) () the pure intermedia (pure nexts seuralis) (3) the parainf adibularis (neurohypoph ses) and (4) the pare t berales. The last downs the enumentus succedures of the tuber concresor and a re developed from the ectoderm of the embryonic baccul call to ad the prehypophysis a den ed from the o lerm of the foregut

Buell regard the chort cells in the antenor lobe as mother cells of the co-monhile an I hasophile grave la cells but believes that I three aneties to dif lerentuted cell forms the printicular lanction. The the knowld accretion of the chief rells as ell grand as green off and the I look evels and only exceptionally tored up to the follocles. The mid lie lobe form collect a retion but is best tener off mt the acid of the follules d from there is poured ant the cleft of the two of the mill' lobe and I riber int the left so the onnective rul arports a trespe of the activo's poph at and the his

poph seal pedick The secretary of the auterior labe linoid 15stance notited as tethel. pleases codynamically The likeon effect of printers mcf.ccn simils sobst ner upon the blood persons rener

tion month smucks and encretestion of mass

due to one or more intermediate substances which probably undergo definite changes (ctivation) on their way through the neuroh; poph; as Regarding the functions of the fatultary body as

show by clinical and experimental beervatio

Bredl makes the following statements 1 The pituitary apparatus is a jutem of organs

import at to lif The separate parts perform dif ferent functions in the economy of the body, and the co operation of all of them is necessary for the maintenance of hi

2 The anterio lobe is true gland of gro th the internal secretion of which determines the growth and theres th the dimensions and habitus of the body parthy directly partly through influence upon the generat ve glands. Undersecretion leads to dwarfism and premature senility and oversecretion to gue t growth ad cromegaly

t The middle lobe is metabolic gland, the internal secretion of high influences general metabolum the individual components of metabolism, the regulation of body kent, and the ctivity of the sympathetic system Probably this secretion has an indirect influence on the metabolic center situated in the subthal mi region by a y of the eurobypo

physis and the hypophyseal pedicle 4 The para t beralis may function with the para

intermedia but this has not been proved The posterior lobe is not secreting rgu Dystrophia diposogenitalis can rue from injury t the module lone of the pituit is or t the midbrain I most cases an injury f both is found. The same is true of dighet a insipidus. The regulating tentral organ of the hypothalamus functions independently and us cu my is determined by nerve and blood stimuli. Important blood stimuli, re the

bormones of the eighboring pitu tury body with bith t is connected by lymph persages

6 It is not know a bether there is a sugnific cance in the close promitty of the gland of growth and the gland of met holiam

7 There is reciprocal action between both glands of the pituitary body and other endocrin glands V romanum (Z)

SPINAL CORD AND ITS COVERINGS

Sgalltzer and St J trou The Rocutgen Findings in Tumors of the Spinal Cord (Roentsen befunde by T moren des kneckennarks)

d Great get d Ved Ch

thors discuss only tumors high arise from the spinal cord or ta membranes and do not tt ck the bone. I fteen such tumors were examined T of them ere extramedullary and ere intrimedullary 1 vortoses were pres ent in time of the ten cases of extramedullary tumore but in onl one of the fit crees of ustra med It ry growths. The latter as large tumor that had grow through the ent re cervical merrow The exostones were found & times t the let 1 f the tumor and four times somewhat further dos

Seq vara o

I cases of entrally located tumors they were al a y at the tumor level, but those of dorsal or more doeso lateral tumors they a re sometimes somewhat lower In four cases of atramedulary tumors and in cases of open meningitis serosa no exostous could be found. Therefore the finding f an exostous which is confined to small part of the spinal col mn may be if diagnostic significance indicating tumor of the spi al marro tom should be performed t the level f the exactoats unless the neurologist is sure of the location of the tumor. If the tumor is not found it the level if the exostosus a search should be made for a further

In conclusion the authors state that little is kn in regarding the cause f the exestoses. In this conection they cate the fact that Schlennger and Schiller ha found circumscribed exostoses in the neighborhood of endocranual brain tumors

HACH Y (Z)

PERIPHERAL NERVES

Stradyn P J Th Treatment of Injuries of th Peripheral Nerves (Beh ndlung der Verletzan-gen peripherer Nerven) Frihandl d Rau Ch Properties Petrograd o

To determine the relative ments of surgical and conserv to methods the uthor has chosen from his 8 7 cases (3 of which ere operated upon) only those in which the t extment was carried out systematically for period of at least three months. Purely conserv tive procedures in 56 cases re sulted in improvem at in 45 per e t, while operatis intervention in cases caused improvement in 62 per cent ith restoration of active motion 1 275 per cent. The inadequat period of observation (for

valid ocumen a period of a continue veins in describle) was reflected more clearly in the statistics of single operatic procedures eurolysis was successed I in 76 per cent i falts five cases, and serv suture was successful in 4 per cent of thirty fiv cases. I'm orable esults followed six plastic sers operations only to the extent that in two

cases trophic alcers healed

I rom the orld literature of war injuries the ther cites the results 3 28 CALLES Species followed neuroh as in 60 5 per cent and suture of the nerves in 54 per cent

Physical and mechanical therapeutics must precede and follo operation. The results of operative intervention undertaken from three t fou months after the era mjura ha been no worse than those of operations performed in the first few

Lenche operation ha proved to value clinically median necross is not t be feared for according estigations in de by P troff a th vital strum in the laboratory of Anitschkoff the utrition of the median nerve occurs from the himen. I the blood creek out and

Chersin, V. R. The Operative Technique in In-J ries of Peripheral Series (Zur eperain en Teck ink bel Serietsmaten peripharen Serven) Verry Cher truk es

The author reports upon thirty four cases in which an operation performed for I junes of the perioderal person. I surgern, the science person was involved, in it the median perv in three the ulnur nerve to six the radial perve and in t. o the beach: I plexus. The sci tic nerve emoved by

the Baroatech Wengloush uncoun Stoffel contention that the new tract t the meln Just mustles are destruct) probated from one nother in the purve is not entirely correct. The in cst gations of Borchardt and Wizsmenski deuton strated that there are numerous and tomores, the peripheral nerve therefore consut use pleases. I auturiar accurat countation of the pery emis is Imports t The pernd may be made the same waith by Hofmerster method of injecting find lot the smaller end. The reinforcement of the anture ith a tube and strip of fascia bould be bandoned. The sui re itself should be made in the amplest manner. The placing of the set re line bet een muscles is I sub-anther. The neuroly va and the endoneurolyse must be carned out title Se wx (L) errest care

Nanacow W. M. Regeneration of Nerves in Cica. tricial Tiesse (Leber Recognition des Endorr connections on Nathenireache) I marget & 11 durant Asser Letrograd o

Human scars ere unned after from twelve Staming as done by the Lhrbeh

dayst one yea Honel and Golm methods

I the twel day scar regenerat PROCESSES were noted, but as the small perve trunks had not yet penetrated ant the epithelium no pain as ca sed by pin pecks. I addition to regenerative processes degeneration as observed if the scar boundary the ners rudings did not tak the tain

I the us eek mats the nerve termin tion had eron unt the epithelium ad sensation as persent

I scars to months old growth buds ere still found in the coulbelium but fire an months these

era bacut scar four months old with an unbeiled are lating ound (amputation stump) the process of scar innervation could be seen plain! the purfibers which form the trunks being dearly suble in the newly formed connective tissue. From these tranks fibers branched off both formed subers the hal plexus sending out terminal branches luch

formed non encupsulated new enchara-I one year old scars of the tip of the finter peculiar serve endings ere observed hick in shape resembled the Colst Mazzoni corpora

The a thor comes t the conclusion that the resemeration of perves is subject to special is a said that the final objective of the nerv. Abera is the enathelium. The gro th of the nerve fibers is in

dependent of the direction of the fibers of the reapects o tissue and the wearle

The wound is epithehalized first and penetrated by the ners fibers I ter Consequently full reres eration with restit tion of the nerve elements does not t ke place in man before one or t a months or longer. The depth and steat of the wound to be scarred over are factors of influence. Scauce (A)

Resentul M. A. The Ethology of Neurothronetents (/or Articlotte der Neurofdressetere) 4 tracks to Mad Bell it soot i as

The sethor in it is detailed description of the chascal pecture and the histologic findings I the to year old woman with acurothromatess of the trunk, the flexor surfaces of the extremater nd the nators of the hand. The lessons metaded telanguectatic pots, freckles simple warts, timpo, meri piana, nel fibromata mollesca and careras-a of the most and dimensions up to the flap shaped structures first described in Bruns as elementums The latter larger than ppics. **peuromatodes** covered the night arm the original site of the duener where purposted soot was prevent when the p tient as born. When she as i years of age the spot begin t grow like t more at the age of o verms hen there as counting of meastraites.

the distribution w general

The patient as twentally dell. There as no mfantile The thy roof gland main the atenna was enlarged. The adrenalin content of the arms a markedly dame wheel but the t of the blood was normal. The leucocytes were increased and showed 70 per cent monopoclears. In the distal third of the right humerus there pronounced bose stroph) (neurotrophic) in the proximal part and in the

met bemaning Is the result of organotherapy the general con dition inproved the eight incrused, and some of

the teleprectatic abromata disappeared

In the athor opinion neuronbromatosa is due ongennal plurighandular anomaly or dyslaw. tion. The tumors rive to the permental connects of terme as Recklinghausen has already bown. The I are number of Ehrbeh must cell confirms the assumption that young granulation tisess is factor. The part placed by the serveds lements is puse. The growth produced mainly by the neoplastic formation of blood cuels of the most varied area. Old mat not more show diluted brook

resels, some of high form hollow spaces MER O'TE WILL (Z)

Moleckoff A G The Pathogenesis of Trephenesis rotic Skin and Bone Changes and hew At tempt t Their Surgical Treatment (De Pathogenere trophoneutotecher Haut Auschen traender ern and in armer between their champriches Behandlung) Leth all d Russ Che Purgal Ger

Percend The origin of trophoneurotic lenoms is problem which has not been solved. The operative results are not encouraging. Complet and permanent healing has been obtained only in superficial injuries

of pempheral nerve tranks

The author is familia with the hypothesis which maintains the existence of a special trophic nerve apparatus and special paths. This was first advanced by Deplay and Moral m. 573 and recently revered by Payloft the physiologis. The following chincal dais are diduced in its support.

The beence of any dermal or skeletal trophic changes after complete, uncomplicated severance of

perve trunk

1 The constantly observed grave trophic dis turbances associated a th nerve lesions character ized by severe pain. This is best explained on the base of a parallelism of the trophic and sensory

acree paths

The obstinate tendency to and delayed con 3 The obstinate tendency to aid delayed con anidation or the formation of pseudarthrous in certain on fractures in which the radial nerve is myolyed Anatomical study of such cases led the a thor t conclude that the cause is an injury to a branch of the radial nerventering the foramen u testiam. A fracture of the humerus which failed to unit a o venue after an accurat bope suture (neurotroome esteonorous developing in the fragments) promptly united in aix weeks after an analogous operation in which the degenerated radial nerve fibers were resected and a neurorrhaphy was per formed

Further chascal proof as furnished by seven surgically treated cases of chronic skin tion and bone suppuration four due to tendon injuries and the rest t other traumata freezing, or infection. The site I mjury was the cauda equina in two, the brachial plexus is on and the tihial ners in the popultral four in one. Under aseptic conditions the nerve fibers were severed the sharp scalpel proximal to the mt of the lenon and the neurits and with regard t the posterior nerve roots and the segmental projection of given innervation area. Ukerations which had resisted all local the apy for from eight months to four vears then healed m from t elve t filteen da, a In one case i trophic ulcer of the heel of one and one half years duration,

buth followed simultaneous injury of the popultes! nerve and the femoral artery in Hunter canal, a most radical Lenche sympathectomy had been car ned out, the artery being resected for cm Heal ing took place however only after neurotomy of the tibul branches of the sciatic nerve 7 cm box s the site of the mjury bixty five days later, in keeping ith the usual rat of regeneration of about

in t enty-four hours contin ty was re-established and the symptoms recurred. The ulcer healed gain when the altered personnings were resected The dystrophic process is of neuritic origin. The

distribution of Pathologic irritation occurs in centripetal direction. The point of origin is usually

distal to the posterior roots

The result of treatment its degree d tadors tion depend upon the distance of the operative pro-

cedure from the centripetal neuritic process. A fact of importance in this connection is that the severance of the nerves destal to the site of the invery had no effect upon the trophs. Icer of the foot, but the same procedure proximal to the injury resulted in

raped bealing The stages of healing of older are characteristic As early as the second day after operation a quantity of landable pus (pus bonum) is exuded in stead of the previous sanguinoserous secretion. New granulations are then formed, the callous borders desquamate and epithelium spreads rema kably quickly soon leading to epithehration and scar formation

In a case of ulcers of both jeet neurotomy i the most severely affected extremity was followed by healing in the foot not operated pon as well as in the foot treated. This suggested the presence of

intracentral trophic anastomoses

Bendes the primary trophoneurotic lessons, reac tive processes such as hypertrophy of the skin or nails are frequently found in the neighborhood of the disease focus. These re not the result f a disturbance of utrition, but due rather t posit v nerve irritation. Both the trophic depressions and the accelerations occur in the paths f the spinal perves. The sympathetic system may be unitated also reflexts this leading t various vasomotor changes buch must be differentiated from purely trophic changes YOU AND DIE SACRON (Z.)

STMPATHETTC HERVES

Kappia, M. Th Eriology and Treatment of Perforating Ulcer of the Foot, with Remarks on Sympathectomy (Ueber Ursache od Behand lung des Mahem perforans, mit Bemerknages zur I rage der Sympathektomee) Kiss II chasele 10

Perforating alcer of the foot is generally looked upon as a trophic alcer. Its exact cause is still unknown in spate of many by potheses. According the most recent theory that of Leriche and Bruening pathologic irritation from the mt of ners utjury particularly a neuroma, is transmitted t the spinal gaughon and the spinal cord here t leases reflex and this reflex in part returns by y of the peri arterial sympathetic tracts to the periphery where it causes dilatation of the capallanes becording to the uses of the athor perforating

ulter of the foot is decubites developing in an anasthetic or hypesthetic area of trame in which there are trophic disturbances. In the majority of cases the reason for the failure of such ulcers to heal must be sought in fistula of the joint. As this fistule can heal only ben the affected joint is extirpated the operation of choice is resection of the jor t

The author observations are based on thirty-one cases of perforating ulcer I the foot, including thirteen cases I runes of peripheral nerves, four

cases of symptomythis five cases of tabes, three cases of s) philis, one case of spana bafids, one case of per ca us (plus spans lufids occulta?) and four cases of indefinite diseases of the spanal cord

Ulcers of the heel appearing after injuries of the nerves are difficult to influence. The most importa it part of the treatment is restoration of the nery conduction I seven of nine cases of ulcer of the ball of the foot, the heads of the first and the fifth metatarsal bones were resected whereupon the ulcer healed thout reaction A new picer poetred over the head of the fourth metatarnal bone in four cases but, like the others healed smoothly after

resection Of the sixteen patients th diseases of the spinal cord, moe were treated by resection or disarticulation of the toes. Healing resulted in every case Particularly good results ere obtained by resections in which the picer tself was not disturbed. A am put tion or disarticulation comes up for consider

tion only in cases of externa destruction The subcutaneous displacement of the sensory nerves of the skin dyised by Nordmann seems t be

orthy of recommendation

Flan plastics h not been success! I up to the present time, and not much is t be expected from ray treatment. The thor reports three cases which disprove the neuronia theory of Leriche and

Bruening

The patient sustained gunshot ound Case of the sciatic nerve in o.15 I o.7 a perforiting taker developed on the ball of the little toe. I April 018 resection of the rount was followed by rapid healing I May o 8 neuroma as re moved ad the nery set red Sex months I ter nes silver present over the ball of the fourth toe but after the expulsion of sequestrian healed anontaneously

C as The paternt sustained gunshot ouad of the scratic nerv in July 9 8 Nerv suture was done in August o 8 bub-equenth an ulcer as large as the paim of the hand present on the heel,

but gradually bealed

Carry In 9 9 division f the t ball nerv was followed by an Icer of the beel. In 1920 the neuroma as removed and the nerve was sutured The alcer did not heal but I cannot be denied that neuroma is ora the development of perforating ker

The thor treated four uses of perforating leer by percurterial sympathectomy of the femoral good result as obtained I ertery In the case of gl scoma sympathectomy performed on

the common carotal artery as successful TORLORDITE (Z)

Schemoff, W.N. Perl Arterial Sympathectomy in Spontaneous Gangrene (Zu Frage der perur tersellen Sympathektonne har Spontangingraen) Il catatà Cher popra ellaster qu

In apontaneous go grene two operations are recommended to improve the blood supply I the

discused high () arternovemous anastonicus by Weting technique and (2) heature of the ven by Oppel' method. The author has performed Leriche's excesson of the pers-arterial sympathic plexits in fifteen cases of spontaneous gasgress This operation results in enlargement of the vessel improvement in the blood supply and an increase

the blood pressure which i mumber of cases led t escatrumation of the necrosed part

Schamoff reports the case of man so years of age who had go grene of the toes of both feet Pulation as absent I both populeal arteres. The blood pressure as so mm on the left side and so mm on the right. The gangrenous alterations are more extensive on the left foot. Pen arteral sympathectoms was performed on the left leg, and for purposes of comparison, ligation of the populted ver by Oppel's method on the right. I the left leg healing of the ulcerations occurred in sixtem day but the right leg showed no change. The nations is now able t wall on the left leg without

discomfort I the discussion of this paper Oppel stated that

he severs the scintic nerve because this nerv con

duration

tains most. I the sympathetic fibers Listaryn stated that in estimating the vibr of Lenche operation it must be borne in mind the in the removal of the arterial ad entitia the circuit through collateral sympathetic fibers is permanently

interrupted Henc reported that he has had only temporary exercises with section of the scustic nervice of

neuronathic niceration According t Kra koff section of the scutic vasodilation of only short nerve may cause

MINCRILANTIOUS

THE SEC (I)

Acetan, J. J. and Riddell, T. E. Lomber Spinel Puncture and Claternal Puncture Voicette Made U J o 1, vill 20

The techniqu of custernal puncture is not

difficult and has ad antages over spinal puncture especially dispension only

An 8 gauge lumbur puncture needle is meeted in the neck directly over the prominent spine of the second cervical vertebra directed upward in the midline toward the level of the external inditory mentus and into the dense occupit thantal light ment between the occupital bone and the first ort vicil vertebra. It then enters the subarachaoid fluid space in the gle between the cerebellum and the medulla-the custerus magn. The distance from the skin t this fluid space varies from 3 to 6 cm. Small file marks on the needle serve as guide and guard prevents plunging beyond reasonable and mai depta

T bundred enternal punctures were done by the uthors atboyt serious consequences and rik complete freedom from severe beadsches

patients arose immediately filer the puncture and

returned to their usual activity. The most common complising towas moderate soreness or stiffness at the

site { the puncture Cuternal puncture is indicated especially in spinal subtrachnoidal block due t inflamm torverndat H W Trach M D

Ingrar 8 On the Danger of Leakage of the Cerebrospinal Fluid After Lumbur Functura. Acta med Sc nd 923 l nt 67

The a thor reports three deaths following spinal puncture, to dishich presented intercented turners and the third horizontal hydrocephalins. A critical review of the hierarture is given with discussion of the various theories ad need to count for the distribution with distribution.

che) which may follow this operation.

Largels from theoretical point of ess and considerations of the phisiological data bearing on the origin of the spinal fluid and its pressure. In rel too to that in the spinal relos and its pressure is reliciously the beathach results from lexitage of the spinal fluid through the dural wound in the eye spinal fluid through the dural wound in the eye spinal fluid through the dural wound in the eye spinal fluid fluid through the dural wound in the eye position and maked. effort I resear that the of the brain it may permit the both and post for of the position and maked effort in the forumers may.

um, nd when this occurs, the outlets f the fourth ventricle m v become closed and an internal hydro cephalus may form, which will further increase th pressure on the bulb

From these considerations the thor recommends that spiral puncture be done in the recumbe 1 post tion, with as small needle as is practicable and the patie. Lept in bed at lenst forty eight bours after ward. If the improoss indicate plugging of the bulb into the framen magnum with secondary internal hydrocephalus, intrivences or it is intent.

national and the second of the periods salt solution in the given for resorption of the ventricular fluid PR BULLIVELEY MD Jacobseus, H. C. and Frumerie, L. Leak age of Spinal Fluid After Lumbur Punctures

and its Treatment. Atterned Scient 9 3 Irm.

The authors report too cases of diagnostic spinal puncture in which this procedure are followed by severe headsche. The treatment consisted if the intraspinal injector is promised in sociotion until the manometer showed the pressure t he normal, and subsequent elevation of the foot of the bed

Relief of the sympt me followed m few hours

P R BILLINOSLES M D

SURGERY OF THE CHEST

CIUST WALL AND BREAST

Berry J. L. Supportative Arthritis Simula Acut Appendiciti Lance 9 J. cl. 435 Supportative Arthritis Simulating

The athor report a se of suppurative ribnins of the leventh costovertebral rilicul tion on the meht noc

The nations girl of o ars go a history of broochites men les boops g ough and scarlet fer Since the age 17 years be had hid unterous hitloria and large baces in the right groun

Utera full on Febru ra 27 9 she compilined (pain in the right kip but the nest dir the die appropried. On Virth, who ret rectifrom school beca so of abi ring tiach. On Mar h she had i is the bilimen of her temper turberres 1

I by secul min two ter aled tendernes in the right han and or the right ill in The temper ture rose t a degrees I and complaint made of tendernes over the right ill fossa and the lo er

rate on the meht side

The tire right ide of the belonging is need adtender The thurb shighth fiered and internall rotated. The right erector was a muscles are sp. tic. The lup joint pormal I sammation of the pelucione till go ammegit The reflexes er slightly examerated Ostromy little the trung rules out in the livence of munin the soine

Appendictions proved the property be normal On Var h a after the operation the child become worse. On the night of March 5 her temperature rose to os degrees ! Death occurred March ?

Postmortem exami tion sho of Pure my th f at phylococcu a reus in the 1 at nd pleural cavities. Numerous colonies of t ph lococci. ere found in the plearification. The ppendix storage d the hip joi t brain adaptaul cord or normal

Upon removal of the plear of the right side the anterior part of the leventh costos it bril joi t as found t be croded and the intervoltal mace boy and below showed pas I min ton ey led culture ga at epitocourses Gram non i rox longus The elev th ertebra as pormul The madelle contot as rae ligrament on the right side had been part ally separated by the new In review of the literature no simila case as (ousd from Vineman VD

Bioodgood, J. C. The Clinical Picture of Dilated Duct. Beneath the Nipple Frequently t. Be Palmeted as. Doughy Worm Lik Misss the action of the Bernst. Surg. Green & Of# 0 3 MM 4%

Bloodgood finds that in the list for years the relative imber of benign and makesiat tamors of the bre at his changed a compared with the decade ending in 1000 In looking mer the ferres for the ten ; is previou to 1000 he found that operation not indicated in kin than per cent and the t mor wa bealgn in only about 1 per cent In the last 100 cares examined by him the chalcal pecture was such that operation as postponed in over to per cent and by the majority of cases was not performed I more than as per cent of the remaloder the growths were benien

The condition described I this article may be classified with thronic cyatic martins. When the dil ted ducts are attented in the apple more doughy worm like mass beneath the airpile is felt on palpation Exploration recent large and small dilated ducts. It is distinct wall which covids brown, green milk or ere as lik material of tan ous degrees of a woute. When the turner occurs in a zone of the beray outside the amole area, it feel like differe mastelle but has not the district eries or burnles of the diffuse non-encapsulated

Distributed within the appole some may go no evidences of their presence to pain discharge from the aippie, retraction of the supple or palpable turner 1 there is a relation between this condition and malignance there is no indication for operation if nothing it be made out on palp too but single or multiple dough; worm like mass beneath

one or both nipples

Only Mesons

I fortunately dilatation of the ducts beneath the apple ma be award ted with palrable tomors of a different haracter and in addition, there may he retraction or fixation of the nipple disspling, or fix thou of the skill I some metances the clinical par ture so strongly suggest cancer that it seems only proper t perform the complet operation for cases a thost exploration. In his instruction there-active must tes (persoluctal) to so murked that the tumor beneath the supple ha the induration suggesters of makenancy and hen it is explored, cuts and looks lik cancer the unflammatory tresse he me become obliterated and he ing emptied the duct I few cases assume the picture of an abaceu beneath the mayble aid reols due t infection of dilated en few cases the area is outside the duct and in named some the chancal part to closely resembles. that of cancer Of the t cuty is cases of diffuse dilutation of the

duct set ted beneath the supple lack are considered in this paper fourters are cleared as thisscally benign and one as malagns t while in there the palp hie tumor resembled an bucess Blood good rejords thus type of dilatation of the ducts as a t) pe of sends breast. It is most common after the age of 45 years, and the subjects are usually at the menopause or have passed it. It has been observed in women who have never borne children and in those who have lacteded once or more often without trouble Trauma is not an important factor As a rate the patient consults the physician soon after the onset became of pain or tenderness in the breast or a discharge from the moole. The condition may have an cute omet which may sub ade, leaving the pulpable worm like tumor or so on to abscess formation. The most important point in the diagnosis is the palpation of one or more doughy worm-like masses beneath the monte Experience seems t show that when the lesson can he recognized, operation is not indicated, but that when there is a definit pacture of mahanancy either exploration or complet extirpation must be per McMickey HANCERTY M D formed

TRACHEA, LUNGS, AND PLEURA

Gast, W. Bronchial Fletuire (Ueber Bronchialfistela) Dudicke Zischr f. Chir. 9 chxxv 9

Broochul fittills are exused by traums or infimmation. The distinction is made between internal and external fittills and hip and eavily fittills, terms indicative of the budgey Reference is made to retrograde breathing and the possibility of prough the presence of fittills by ample physical methods. Stress is last upon aphoma in some cases. Occasionally these fittills beal spon tancously. I cases without retention of secretion operative measures are indicated. Reference is made to individual methods of operative closure and to the indication for the estiblishment of an attributions are passages (Ohd first his control of the property of the intributions are passages (Ohd first his control of the Leitzer Company of the control of the Leitzer Company of the control of the contr

Eight cases observed in the Leipzig Clini are reported. June (Z)

Brecca, G. Fisural Pressure and Lung Collapse in Artificial Pasumotherax (Pressure pienno collesso polmonare aci posymotorace artificale) Polidis Rome 19 3 xxx, see med \$9

I his previous publications on artificial posimothers: Brecca. I lowed Fortamin a detirm, always naminating that it is necessary to immobhe the long. In practice, however this is only surely possible. Instead of an isolate collapse and complete poeumothorax there is often by and facent collapse and a sufficient paramethorax to mitigat the morbid syndrome.

In every case there is certain optimizing nounce optimizing compression which corresponds to a more or less complete collapse. In some cases that was be obtained to pleant pressure even manifestly regarders. Above and below this critical point he lavorable action of the positionological ceases and the phenomena of mitolerance poear. There for Birectia now believes that the best role to follow is to employ the minimum pleant pressure which ill maintain the best pelinogary collarses.

W A BREIGHA

Josefson, A.: Primary Cancer of the Pleura in Man and Wife. Acts see Scend 9 3, supp 111,

It is beheved by many that the cause of carcinoma is not a condition in the cell itself but some kind of serm injection. The author reports an instance of the occurrence of primary cancer of the pleura in man and wife. The man, who was 55 years of age had suffered from attacks of gout but had never had syphilis. Complaint was made of shortness of breath The clinical diagnosis was pleural effusion on the right side. Tapping was done on three occasions At first the finid was only shahtly blood stained but later contained considerable blood Y ray exammation should a compact shadow in the lower twothirds of the right lung About a year later meta static tumors were found on the ribs and in the region of the gull bladder. At about the same time the patient coughed up a concretion. Subscopently herries soster developed on the right side of the thorax The patient died after an illness lasting asteen months

The man a sal consulted the author nice years later at the age of 8 Examination revealed a large plearal effusion on the right nice On tapping, this years of the plear and the resource of the plear and Microscopic examination aboved the erediate to contain large masses of cells very examination confirmed the diagnosis of plearing confirmed and an activate the diagnosis of the plearing confirmed and the plearing confirmed and the plearing confirmed and the diagnosis of the diagnosis of

Postmortem examination showed a primary cancer of the right pleurs with metastases in the great contentum, the pertoceum, and the retroperatoreal lymphatic glands. Histological examination conimmed the diagnosis and showed numerous large cells with the chromatin arranged in stellar from

within a lighter sone H W Frex, MD

Montenegro V Mallgmant Tumors of the Lung
(Sobre traverse malagase del pounds.) Pres de
la di Maland, 233, xrv so

Montreepro reports the methods by which he is able to exclude all other conclusions except a stable to exclude all other conclusions except a makingant tumor of the lump in a man of a years. The principle symptoms were also as the years weight during the previous as mostly and performing the previous as mostly as the performing the hole of the consensal form. The X-ray showed medianthal shadow extrading pumpapily toward the upon part of the right ling pumpapily toward the upon part of the pith ring the myselm part of the pith ring the myselm performing the medianthal glands and extending by the tymphota to the lung and pleurs.

Fair-tive treatment was given Thoracic pain, which was beent at the first examination, developed later Devide was preceived by orderns of the lower himbs and the symptoms of cerebral excitation.

"A. Brook.

HEART AND PERICARDIUM

Burian, F. Operation in Tw. Cases of Cardiac Wounds (/ responset Herzyerletta em) C. p. let C.k. a. lu. v.s.

Gas it. The put and an any all gas k-collected with the edge of leck and lie king as don't lever the best needle abe had run. It from to be cartilage of the as that it reserved and a great great gas and stack gas the wall of the right chamber. The punction could like he will be the stack gas the wall of the right chamber the punction of the lever wall wall as the lever will be the stack gas the stack gas

(2) The path two arthur old man ho injured branch of the left oronare etery is it input is muche At operation to hours fiter the representation to the pure of p with its base out and made

over the third fourth and fifth ribs. The plears
found to have been pierced and the pieu lity as full blood. The percentium werrath hateneded and black. At the left bonk we

opening om broad from which blood clot protraded On the removal of the clot profuse hemorrhage or urn ! The opening was raps if larged The puncture cound of the heart. R

larged Dependent outside the beart as from long but of ed only the upper layers from the fibers. The branch in g from the left coronary riters had been severed to the juncture

of it middle and opporthirds. Cited heaton is followed by ture of all layers: thout dra mag. The wound bested by pensary intention, but after the operation there were augusal attack cancel per high by reem of an area of heart number of datations, of consistency.

GESOPHAGES AND MEDIASTINUM

McKinney R. Some Phases of (Esophageal Streeis. | Orl Rhead & Laryage + xxx 477

Chrook stenos of the recolarge in decidy from sparm due to local irritation residing in the cheeping at all a This stenos in prove do green it life and jet may be soon malgrain. The thor considers that direct en run time of the tericon through the crophagescent is eventil it decimbe in character II report four cases it their to the dugmons of bear recolarge. I case the crophagescent is compared to the construction of the c

the local treatment. I one case (fourteen year direction the stressed disposed a benign and district through an origination of the benign and district through an origination of the stressed of the control of the stressed of th

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Hey Groves, E. W. A Note on the Operation for the Radical Cure of Femoral Hernia Brd J Surg

9 1 % 579

The thor reports in detail a series of t enty t cases. The advant ges of the combined femoral and inguinal peration are commerated as follow

I In cases of strangulated berma it gives ample room to deal with the damaged bowel a d. if neces sary to perform resection

s It has all the d antages of an inguinal p proach, e the possibility f lon g the femoral canal from above without the necessity of dragging up the hermal sac through the femoral canal

3 It allow the turing of the co-joined tendon Cooper humanent with great precision unhin dered by the overlying Poupart ligament

4 Pompart's ligament being freed from tenno can be saughy utured as extra covering ver the luse of suture bet een the conjoined tendon and Cooper ligament

There has been no recorrence in the uthor cases F C ROSTITUDE M D

Erdman, S Insulnal Herms in th Male 1 Sere or breva. 7

Thus article is besed on Loga cases of lects overstrong for inguinal berms performed by nineteen surgeons. Of these 80 s per cent h we been followed to determine the lat results. Of the latter group 6 7 per cent had recurrences

	TANLEI			
τ =	Charles	RECORDER COM		
All per Seeti	***	_		
	ų	54	14 6	
اجها	974			

TABLE II TIVE OF RECURRENCE FOLLOWING OPERA THE IN THE TRAILED AND

120171101200 (14)								
Operations		Securence fest pated			Tetal			
Тур.	.		T school	ile Inerta	<u> </u>		٠,	Per cent
Object Past	441	u	1				=	*5
Total	475	٠	_الد	1 19			27	-

Several causes for early recurrence became evident in the series studied. These ere as follows 1 Direct to overlooked at operation natances the operator tuted the time sar found. but then thre months definit herma was

present. All five failures occurred in cases diagnosed as balateral direct herms. The thor experience such cases the perit neum should indicates that be opened and the sla k taken up even if no definit ac is recognized

Incomplet repair because of the patient

poor physical condition accident Postoperat

The mortality as 3 per cent Only one of the deaths was due to wound injection. The two others ere caused by pneumonia and what appeared t be an embolus. Bilateral berms was present in shout 17 per cent of the cases, and in the follow-up records twas found that bil teral hermis developed entu lh in 37 per ent Oblique berma was bilateral in 26 per cent of the cases and direct blateral in coner cent. The combination

direct indirect hernia, was bilateral in 6; per cent These are sub percentages of the lalateral group The Bassim operation was used for nearly all patients o er 20 years of age. For many of those

bo were younger the Firmson non transplantation method was used. This method seemed satuhen the musculature was good and the factors herous small. The export ace of high lightion of the sa is ment oned. Twenty fi e per cent of the cases had direct bernia and a most of these the conjunted tendon was not ecognizable. It is believed that in cases of direct bernis the cord should he we be transplanted, and firm and deep closure

of the cal triangle of Hesselbach should be done Of fifty t o cases of operation for ecurrent nguinal berni which were traced, a per cent had a гестителсе

The femoral vern as myn ed ith the needle once but a lateral ligature w applied and recovery was unes ential In one nstance adherent small intestine as opened and despit immediate suture the wound became infected and the herma recurred The as deferens was do ded and causes plant thout subsequent il effect

In seventy seven early cases ppendectomy as done through the herm nession, but this practice was discontinued as routine procedure because I the danger of hemorrhage or infection due to nadequate exposure Non descent of the testes as found in twenty

cases. All of these were treated by the Bevan method In three, the results ere good, but in the remainder the testes remained in the upper third of the scrotum, and in leven they failed to increase in mee Orchidectomy was performed five times

Division of the deep epignitric versels as practiced in twenty three cases in hich the bernis was of the saddle back direct-indirect type saddled across the epegastric couch with

TABLE III-THE BEALLIS OF IN TREAT TYPES OF

	Of Jurian burners			Direct horsels		
Type of specialists		Re serve m			Lecurrous	
	==	-	23	-	٧.	3.7
Bookel Randel vs & sector (and fire transplanted	44	,		н	,,	7:3
Fairs spreadured trans- plant of part Atype all pryour	•			4	**	5
Treal	P		1	771	,	-

I at per cent of these the condition recurred ail t non-case death resulted from palmonary end of a The a grage at y i the bospital in cases of

The a erage at 3 is the booylist in cases of oblique bernia was 37 d vs while in cases of direct bernia it. 12 f dis Recurrences des loped in 1 o per cent of the 1 fected cases. Scrotal t mesfection occurred in 13 per cent but in very few following operation for direct bernia.

DES HIN CHEE, VID

Fraser F The Principles of the Surgical Treat ment of Infection of the Peritoneum. British

sweaty for years go with the person method. Fearmerly the black that the personeous had hitle power of resisting or comiting in juderilon and hitle power of resisting or comiting in juderilon and traded I lectore paraboled and labor international to the contraction, left of the adoption of the following technique removal, hen possible of the main source of the sepular densiting of the personal entry by washing drain per by takes or other many contractions of the personal entry in the personal contraction of purposition and butterent from merchane.

Today the practice adrecated i based upon the principle of rest i inflamed arctures and the belief that the peritoneum will be able i result unicontrol infection if the main source of sepas is resolved. The peritoneum is seldom — shedor drained purptit es are not administred, and morphine is

If ear There better gain access t the personnel cavit there is rigid and copoor protect. Busine containing phase, the city above desires the bettern. A fine layer of fibrus forms over the interest of protects and protects all of the authorise of protects the endotherium from the choose fibrus and fine of the copole over the copole o

The following conditions indicat: the introduction of a dru: but the peritoocal cavity for abort time fore occurs, at the operature at which caused be completely stopped drainage at the point of expected leakage of vincus (bile may discharge if heature cuts through a oftened cystic duct after the removal of a gangrennes gall bladder) a localized abserva cavity and drain ge of a primary beas of infection not removed

Rest to the intestures and perlumenum may be secured by the administration of morphine and batteries from food. The author does not fail that morphine induces paralytic fleus. Flatinat di tention is e sily referred by means of a faire tuble or by enema and offuntion.

WALTER C. B REST VD

Arni, K. Experimental I varigations on the Gertro-I testinal Movements in Acute Perfectly (I spermoss Re testopolary wiber de Mara Darmbewegangen bei al ter Fernants). [ch.] per Path. Physical 9, 2022 42.

Val found that the 1 trapentoned layerton has cats of 9 c m of a per cent soleton of layer lockine sol ton per kilogram of hot weight per decred a type-of semiformous personals between level not only pathologro anatomizely but the course. The dise we reached it manufam bet or forty-right and seventy 1 hours and operations he ling occurred after a week, "high adhorsing appeared most of questly forty-spirit and sevent

(hours it rithe injection of indine and dispperted complet is ther about 6. day. The results of intrapentoural injection of target for one less countant. A final document of typical harmorphagic peritourity but smaller does were followed by a serious peritourity or hyperment of the orientian. After reps. ted injections as a sexp-

tic supporati e peritorité resulted la ouly ser che. On the interperitore l'appetion of i ent) four bour cultures of staph lococcus urent, riciplace, cus py optines, or bacillus col in fatal donc, all et la unala howel i the most hyperitors of the omentum, but the injection of 3 curp per hilogram

omentum, but the injection of seem per hibertan body eight of muture of cult revol staph local on b either one as severe changes in the pertoored ca. Thirty per cent of all the amenda thed

A marked retardation of the mattroasterical most owner as a demonstrable roentgrounds, is foliate turpentine and hacterial periodic. On suring rabbit miterine Lupen's solution acted as a timul 1. Viter the do asso set all the branches of

the epinschair serv in healthy names and those in peritositis the empt ing of the graits national rivet became more capital. The therapeone effect of holin on gastro intestinal paressa was sho demonstrable in ternal peritositis. Remore (7)

GASTRO-INTESTINAL TRACT

Still, G. F. Congenital Hypertrophy of the Pylores

No. 11 J. 9 1 379

The utbor experience it a congenital pylane stenosis covers period of t enty four years and a total of \$45 cases. In this article he sustinances the findings in these cases, and reviews the treatment

Of the set nationts, only thirty-seven were females In about 50 per cent of the cases the child and the first born In four instances there were two mess in the same family. The vast majority of cases have their onset within the first are weeks of life The most important symptoms are persistent vomit ing, constitution, and loss of weight Unable rem states and an abdominal tumor are al ava present see treated cases there were so recoveries and acty-time deaths

During the past twenty four years the treatment has undergone many changes. The author has seen a few cases in which the times and washin peristable despreased spontaneously under sumple dietary resume. Of seventy-eacht nationts treated by easter layare, forty-three recovered and thirty five died Such cases are instructive as to the spasmodi oracin

of the hypertrophy

With regard to the operative treatment the utbor etates that the Rammetedt meration is simple raned, and exceedingly efficient but has consider able mortality. In twenty-casht cases in which this operation was performed there were cleven deaths from hemorrhage, shock, or collapse. The has therefore abandoned the procedure in his own practice ad is now usuar the operation of forcible dilatation. In forty-ux cases treated thus in the past early years there was only one death. The low mor tality Still attributes more to the skill I the surreon who performed the operations for him than t the operation steelf H W F vs. M D

keratesin. W M Syphills of the Stomach (Zur Francisco Marcastonia) Salerah Med J

The author review of cases. Guiumatous and selero guiumatous infiltrations of the stomach usually develop in the submucosa, generally form cur comsended temors, and are rarely of a diffuse The following stages of the process character should be differentiated infiltration, ploreston, and continuation

Histologically gummatous infiltrations consist of connective turne professly infiltrated by arterial

venous, and capulary vessels filled with blood and large number of harphood cells which are often grouped in small rulets in the granulation traces Such gummatous infiltrations become soft, the morous membrane a broken through, and an ulcer forms the infiltrating borders of gammatous trause

A primary gestric ulcer may also arms as a result of the vascular change caused by the syphilia, chiefly through perryascular cellular infiltration cer m in no w y distinguishable from the ordinary round alcer

Chrically, syphile of the stomack rose its course (t) a chronic syphilitic gastritis which differs bitle from the ordinary chronic gastritis except that it is refractory to every non specific form of treat ment () gustne aleer—the most frequent form according to some statistics so per cent of all gastric akers are applished alcers -a th characteristic pass

et night (a) a nepolasm, which is usually inter preted as carcinoma and (a) an infiltration which causes restoric stenorus. Specific treatment leads to a raped cure in syphiles of the stomach

The uthor reports a case characterized by severe eastrac symptoms, severe pain, frequent vomiture. and emediation. On eastric analysis, the eastric mice of the fasting stomach was of the character of sero purclent exudate and consisted exchalvely I mus cells (100 and more in a microscorec field) Hydrochloric and was beent As a phlesmonous eastniss could be excluded, the author believes the condition was an ulcerating process complicated by superintive inflammation. The Wassermann rection was 4+ Symbilia was supported also by nodu let formations in the liver and scars on the ler Specific treatment with neons lyaman and notabilism while cannot raped improvement Greenway (2)

Payr E. Old and New Aids in the Differentiation of Illest and Concer of the Stomach (Alter and Nones sur Unterschesdung von Ulenstumer und Lords am Marco) Zentrelli f Chy o a rhy

The differentiation between pieer and carefnoms n often not easy wan when the atomach is exposed, but is of great importance with resard to

the choice of operation

In cases of ulcer there is an acti e arterial reac tuen, while in cases of cancer the dall color of the dilated vesus predominates. Ulcers as a rule are authout sharnly defined borders, their hardness decreasure gradually and during the operation an ulcer becomes softer after heatson of the afferent and efferent vessels in the small and large omentum. while cancer remains unchanged

In cases of alcer extension into the surrounding tismes occurs earlier and is more intensive than in cases I cancer In cases of pylonic cancer which has not yet extended t the serom the longitudinal muscle fibers are spread spart by the tumor extend ing through the pylorus and become vanishe as per allel fibrous bands on the surface of the stomach

When, in cases of ulcer with deep, smooth cavity the opposite normal wall of the atomach is present m with the top of the finger the mucous membrane remains dherent in the sicerous depression until the next muscle contraction. In cases of ulcerous cancer with its irregular ranged, shallow crater this

occurs very seldom

In cases of older the mesocolon fold is occasionally stretched out flat and adherent to the stomach, but its lokes are not joined together by neoplastic infiltrations as is often the case in cancer The network of lymph vessels which sometimes

becomes visible in cases of ulter as the result of stasts must be differentiated from the lymph-vessel car constrain which is frequently found in cases of cancer In the latter fire granules and a peste-like substance can be acraped out with the knife, while in the former an incision releases a whitish fluid

VOY TAPPETURE (Z)

Moller 1: Ulcer of the Stomach as Cause of Forer (Lines entre is all fichermorde Miss of Greaters of West Chin

45) is of age who had been treated nees touch for cat risk of the stomach and test ace ffered ith several chill II r tenderoes pressur of the li er nel pleurs with tink serus nguinous xud t. The \ ra bowel te non of the pylorus and great decreased granted mot lit

Operation 4.1 a tumor the are of the street al metastases in the h r 1 harmons of nort wa made On ecount of the tenosi broad

gast enternations a don

After the operation the temperature as ml debtl box norm I for fourteen d and subsequently a entirel norm | Within a v r the

n i thad guned to a keep From the disease pict is the a thar conel less that ithout doubt the case of gestine ulcer rather tha go tric ancer that the met il sex in the liter are met it to become and that the latter ere required le for the 11 in the night pleura. If believes the stepost of the paloru ca sed user ased g true period by h h lorced bacteria i t the port I stem 1 need by the adder. These in turn used the chill bil the multiple becases ad largement I the liver. Mer the g tro-ent ristoms, when the introduction of f tens int the nortal votem or soil the h or returned to it norm laste aid the multing because la came bested kinds (/)

Finsterer II The Surtical Treatment of Close I the Stormach and Dunden on Sect fore

1 103 17 4 4 Insterer has fored radical exect in fithe tomach in the tri tment of gistric and duoden I alcers for ma 3 is The criticefult of this method ref better than those of ample ga tro-jegunostom. From a 4 t d t he h pe formed only fort greater enterestornes comp red the 4.7 resections. All acut adorrs should re-esmideal treatment. M. will beat soont neously Pate 1 ath 1 perforat g where require m. mediat arrecal in timent aid can stand resert in d the first few hours fter the perforst in Bleech g duodenal alcers inch not be resected are usu. Its trut. I by I grition of the rylorus

ith postenor go tro terostom I control the bemoonth to pressure is as de the appoint the

tenor doorles 1 v II The thorempley plaches mesthes II method is follow

A probinggary h poderance if morphine is given nd followed by the induction of local ratherns the belown 1 2 and perstoneum ith c per cent novocame. The spin ber the li er and tomach is exposed and the needle murted also the cultur trunk on the guidag larger hich senar tes the nort sel vina I t the noft tweet overhap the tallth enther so the

c cm of a o 5 per cent novocaine sol tant are a keted. When dense albestons or present the learn omentum is a rected well as the love of the presocolon. It is essential to determine accounts the extent of the ulcer and t. follow the cholesteres from the reacture of the costs; duct to the amount of I ter I temos the greater part of the and secreti e mucous membrane, from two-thirds in three fourths of the Homach m ig be resected Reroot all of the rollers and at tree of the storage not deemed sufficient to prevent the recurrer of molean

I are cost operated on his Fin eterm tha manner the mortality a 44 per ent. Since 1914 he hooper ted upon of cases of piece with

mort haviol a species a

I met ter regard splanchon annether a en atest d no in the surrery of numbel resetted ing kers II has sed tin 80 per cent of has ses of alter. There has been no lung complian tions and a point necht regulative developed after the operation. The absolut cores in a cast fter t ears equal or per cent

QV En / H el

Linsterer II Overative Results in Acut Gestr nd Duodenal Hemorrhay (Die Erfelse let (heral wen wegen h or Magen ad Dunderal Philargen) Harn his H h he arer set

lou nd halfyear ago on the bards of eightern operation the this proposed urb operation a acut gast ic hymorrh er outrars t the oil dict in that acut hamorrhage double managed med II the th surmeall The article havel on thirt thre dittional operations

The objection t surgical tre tment are that de the from hemorrhage is more common than hen medic I tre tou t is given and the results of operation is not good those of medical treat ment. The thor ha selected from the operative record of four I rge Vienna hoqutals for the last is even case in bich an alert or will in found and in hich death resulted from hamorists or perforation. There ere solicises the sear or aker I for too had occurred in jor fat I harmorris ge following rouse in 190 The hun th t the inter of cases ith bleeding ant small six all cases other hospitals and natoria nel ses tre tel t home ere set is luiled

If th regard t the bjection of those opposed t operation the true re-bleeding does not all grane from penetrating ulcers but ma result from smok eroson ttention is called to the fact that in the ses of harmouth go mentioned simple crosses at the source of the bleeding was found only once With reg rd t the objection th t the regular medical treatment are more f orable tha those of urgical treatment the athor states that the me talit of methcal treatment has been based on all ise of alcer rither than onl those th arrest blet hig | kile the mortality of surgical treatment has been based on bleeding cases which cam is operation, and then if the mortality of medical treat ment were estimated only for cases with severe bleeding the figure would be much higher. The mortality of medically treated cases with severe bleeding is at least 5 t 4 per cent. A mortality bet een 30 and 30 per cent in subsequence cases, based on most and cases in which medical treatment was given up, cannot be used f r comparison.

The author reports on fifty one cases with ten deaths, a mortality of 96 per cent. Only figures of carly operations about the compared is th those of cases treated medically. When this is done the mortality in the author cases was only 5 per cent as compared with 50 per cent in medically treated

cases (Clairmont)

The objection that the bleeding leer is often not found a bende the mark, since even flat uncalloused akers can al ya be discovered if every inflamed area in the serom is examined closely as drised by von Hacker and enlarged homph nodes are examined according to the method of von Haberer The objection that resection for the certain control of hemorrhage is procedure too severe is not by a vahel as early operation go es almost the same result as the usual resection. The uthor advises early operation from twenty four to forty eight hours after the ouset of severe bleeding, it least in cases of chronic ulcer as at this tim hf endangering angenus has not developed and therefore the result will be more favorable. I t enty operations there

as only one death (following meffects of arrest of bleeding after gastro enterostrom). Early operation coverents facial harmorthages from crosson of pertoration. The a thor reports to such cases. The patients are now symptom fin.

whereas those

treated medically must eventually com to operation The diagnosis of callous penetrating ofcer is not difficult. Constant and severe pain points to pene-tration int. the pancreas in which case bleeding is an omis orable som In duodenal ker severe hematemests may occur if the erosion is proximal t the duodenal stenores. Cenation of the ham temens does not sarrant the conclusion that the interporrhage has coused as closure of the cardia end may be produced by distantion of the fundus A case of this kind is reported. In uncertain cases an explorators laparotomy is indicated if the history and findings exclude bleeding ulcer medical treat ment should be given. The athor did not operate in eight cases of acute harmorrhage three cases of parenchy matous bleeding one case of artemosclerotic olceding one rase of i es cuse in which removal t the hometal as contra indicated one inoperable case of perforation, and one case in which operation was refused. The best hamostatic is resection. In cases of duodenal ulcer this is not possible if the alter reaches the papilla and the choledochus can no longer be molated from the kerous tasse. In sock cases ligation of the pylorus 1th heavy silk

posteror gastro enterostomy the application of gause peds against the doordenum which archer tow rif the abdominal wall and the use of a compression based age t press the peds and it anterior doodenal all against the posteror wall and the blerding user re indicated. The compression may be released in from itself to twenty four bours in the sale of Gastro enterostomy is contra including action themself and the properties at these of Gastro enterostomy is contra including the contraction of the sale of Gastro enterostomy is contra including the sale of Gastro enterostomy is contra including the sale of Gastro enterostomy is contra including the sale of Gastro enterostomy is contracted as the sale of Gastro enterostomy is contracted to the sale of Gastro enterostomy is contracted to the sale of Gastro enterostomy is contracted to the sale of Gastro enterostomy is contracted as person of the sale of Gastro enterostomy is contracted as person and a specific properties from the Cautemation is employed only to check bleeding from a small superficial seale, peer for bleeding door to encoun

The result of operation depends on the degree and duration of the armis. The prognosis is poor in cases a th bleeding of four to seven days duration small frequent pother at an almost impalpable radial pube. Blood transfusion is also probably valuedes if the dam get the parenchymatous or gains is too great. Early operation gives the best

Thirty-inx cases were operated upon under local anisations and fifteen with the add tion of ther Care must be taken in the administration of overaine Because of the america, 5 per cent solton about the under Morphus should be world.

I the after treatment all available remedies for combating the anoma must be employed. If cesssary a direct blood transfusion should be given Whether the latter should be performed before the operation or whether the bleeding should be stopped fast must be decided in each case. Beforing from a comparison of the comparison of the comparison of congulability but not harmonizing from pressing the

Robens, C. R. The Roentgen Ray as an Adjuvent in th. Treatment of Advanced Cases of Car chroma of the Stormach. 1 /2 is U. Mestă o t.1 12

disough this article is based on the best vations no solve one case this case presented excells to opportunities for thorough study. If was faulty represent a tric of the great majority of cases of gastin excansions, such come for chapmons and treatment when the disease has proprised as far that cure by radical operation is out of the queened by operation, it was shought that further ameliciation of symptoms and possibly retograte changes might be brought bout by recting no therapy applied subsequently.

In the case reported the diagnosm as made climcully and by routings examination. Operation was done left as radical continuous was done that was supplemented by routing my treatment. Market improvement resulted and continued or experience of fiftees months. The princes them deed of carel some of the first.

The experience in this case as so remarkable and so different from that of similar cases | which the roentgen ray was not need that the author is convinced this combination of operation for the rebel of obstruction with treatment of the growth by th roentgen ray a method hich holds out great promise Possibly some of the cases may be crard entirely but if not, the prolonged relief forded is certainly well worth the iscon entence and dotress of the operation. Roestern ther us a early apolied, and the modern technique the danger of u toward res it a reduced to the minimum

ADDUM HURTON, VID

Maro, W. J. Radical Overation on the Stamach. with Especial Reference t Violatization of the Lesser Currature Sare Gyaer & Chu ETAL 447

Carman emphysizes the import nee of correlating the choical examination with the counters exam lastion, a point efter neglected by direbouldian who throw the entire disposite burden on the radiograph instead figure the latter a un aid to. and an extension of the linkal examin tion

INDICATIONS FOR RADIC & OPE STIONS ON THE STOWACI

Radical operations for cancer of the storasch h | | attracted the treation of surgeons for forty years and for the last ten years he e been resorted t with increasing frequency in cases of beginn easing lessons.

Gastro enterortomy will cure more th 90 Del cent of duodensi alcers ad the excellent poloro phasis: operation of Figurey with excessor of the ulcer will did t least 5 per cent to the succeedul surrecal group. There remains, bowever small but defaut group of doodenal alerra ith deep excations which cause severe hemorrhages in lach gastro enterostomy ill fail t rebes the larmor haves and the pyloronizatic operation ca not ell be applied I such cases, at least partial gustrec tomy of some type is the overation of choice.

The field for partial gastrectomy is much wider cases of grattic ulcer than in cases of duocknal ulcer Castric ulcers re usually gre ter in extent They often slowly perforat forming car int the princies and lead t the formation of extenarve and empling adhesions Hamorrhams from these deep excit tions are not infrequent and may prove fital. At best in cases of the larger ukers, emplied, inefficient organ restauts after excedon of the ulcer | Ith or without gastro enteros tomy for the smaller event where along the lesser curvature which comprise bout 75 per cent of picers of the storanch, the conners tive cautery excession of Ballour with givero-exteroscome has proved successful in I least so per cent of the cases to which it has been applied. For extensi silvera tions in the scienty of the pylones, the partial gastrectomy of Rodman (Billroth) has held steady place in the esteem of the conservative surgeon

I dd has shown that I the cause of larger sken at the body of the stomach gustne resection in case tiousty go es satisfactory results. The Billioth and the Puly and the Balfour Poh methods of purtial gustrectomy all have their special fe' is at merfulnes Euch case must be treated on as ments and the decision to the procedure in a given care cannot always be made until spreical emount makes possible course examination of the lesion

I the author opinion a per cent mortater following radical operations for ranger of the storeach is pastafiable nel gives just operablen If he finds that his mortality is running under to per cent he extends the fiel I of operability accepting cases for operation that premously be connected tooperable. The practice has regulard in renariable speces in certain cases. A mortality of 5 per cent following partial gastrectomy for alert of the stomach may with difficulty be fortified and jet at partial gratectomy is policifiedly to case of more

ad anced and extend e ukeration and cases as bich relief ha not been pleasaned subsequent to pressous operations, the mortality according to the author expenence will be ppresimitely a per cent If p teents with mall olders and in good condition to operated on, this at initial mortility can be brought result below 3 per cent. If the sergeon prode in his st thrical results with regard t operati mortality leads him to apply the radical oper tion t the en y safe cases and t was the kea radical procedure on the d agerous type of case, which perhaps to kil be payified from the stardpo at of risk the mortality can be decreased to per cent. If in adultion the surgeon accept for radical oper tion patient with duodenal ukers ho are se prod ondition, there is no re son why the mortality belowing purtial gastrectomy in skilled hands cannot be reduced t less tha a per cent, making a re contrasted with gutto-I to I good showing

enterestorny and pylorophuty Admitting the force of the rement that partial gustreetems permanently removes the aker beaung nd acul controlling portion of the stomack, the athor personal experience has not yet led him to belies that partial gustrectoms has so wake as pplication t peptic alert

M RILLYATION OF THE LESSEE CLES TOLD OF THE STORMAN

literation is called to the fact that the lener curs ture is the most important portion of the stomach Cardiac fixation of the stomach is selfore an obst cle t successful operation, and e know how to liberat the pylonic end therefore in the great in jointy of radical gastric operations the less curvature is the key t the anatomical lock lack terferes ith the liberation of the stomach II one studies the neuroslature of the stomach as re-

lated t the scular ad lymph tic connections of the leaser curs ture the progress that the brack luck bold and fix this portion of the stemack con be acts readily t operation and divided The encess of the procedure depends on early ligation of the gratific streety as done as necessary to the cosine ann, depending the location of the growth in the stomath. After separation of the gratin-hepatic onentium from the under surface of the liver the dutal end of the gratine arrey is held tant and the arrery glands, fat, and unyriding structures are dissected out of the lesser curvature toward the priorus, the lateral vensibe being example and need macrossom as the holding bands are out. The lesser curvature longuist remarkation and their forevalue cases the ampung of the darks in the version of the lateral vension of the lateral v

Complet partectomy is sometimes undexated. The Billorch i operation is again coming t the innet, not only for cancers located in the pysion; tend of the stomach, but also for many ulcers of the leaver curvature. This method has a wide field of application. Instead of monoring an unancessary large area of the stomach es was done by the older four of partial partectomy; tremoves the disease saves the normal tomach, and restores the gustro meterizat cannot by uniting the displacement.

amputated end of the stomach

I certain persons the shape position and morniship, if the stomach and the looseness of a trackments make it comparatively easy? I remove the players half and still directly assistment the end of the gastine stump it the duodenoim. If the end of the partne stump is not more than it is the size of the end of the about norms than the the size of the end of the doudenoim the difference in eabler can be tutched out by placing its authors on the gastine sade to one on the duodenial side. It is imprissing how smooth space has nanistroness will

ppost when completed Schoemaker as the first t free hunself entirely from the Billroth prejudice. H. recognized fully that the fatal suture angle did not occur when modern techniqu was used and showed that in a considerable percentage if cases the extensive remonal of the lesser curvature of the stomach with sufficient of the pylonic end to accomplish the pur pose of the operation would make possible direct union bet een the cut end of the stomach and the duodenum Experience in the May Climic in minilar but less carefully thought-out procedures have led t the acceptance f the Billroth operation as primary procedure on ulcers and carcinomata so ntrasted on the lesser curv ture and pylone and of the stomach as t permit is polication. The value of the method has been shown particularly in the years since the lesser curvature of the stomach has been properly mobilized. After the application of the Billroth method there is a tendency for the stomach t drop t the left of the spine, its weight exerting an injurious strain on the suture has uniting the end of the duodenum to the gestric stump. This difficulty has been evercome in these cues and also in cases in which following excuson of gustric ulcers or Finney pyloroclasty there is tension due to the dropping of the stomach

as a whole to the left of the spane. A point on the anterior wall of the stomach millicently far to the left is chosen, and the stomach is drawn to the right and attached to the suspensory luminost of the liver by several catgut sutures so as to bring the entire anastomous to the right of the spine. There has been no suture lenkage, and gastro duodenal dramage is greatly improved.

Degasw W.F. A Few Remarks Regarding the Character of Digastion After Operations on the Stomach and Intestinas (Europe Wort - close den Charakter der Verdawung mech Operationen am Megra und Darm). N. nikologye Se justé Tulisben Galadrana, 9 p. 3

The prioric portion of the stomach not only takes part directly in gastice dispetion b tuffdences the secretion in the fundal portion in reflex manner. In the isolated fundal portion to secretion takes place on the ingestion of food, but when the pyloric portion is solated a plentiful secretion occurs in both the pyloric and the fundal portions.

After gatto-enterostomy exacustion of the stom of takes twee as long as normally became the section effect of the rhythmic contractions of the sylomis is lacking and the findial part must over come the reassance it the gastro enterosionsy opening which is kept closed by the stomach and gut toms.

The second phenomenon noted, especially after resection of the stomach is considerable dimination in the accidity. The third is the backflow of the transpyloce secretions into the stomach. All these deficiencies of gastric digestion may be corrected by the intestine.

Dony subjected to resection of the storach and gastroducedocutory by Koche' method soon recovered and showed on differences from dong not operated upon. Dong subjected to operation by the Billroth method remained lean often suffered with vomiting, and died as soon as they were given coarse food. After paritie resection the doublement becomes enhanged and, bits a newly formed storach, serves as a food reservor. The gift works the food in compensatory s y and resorption occurs cheefly in the los er part of the small intensine and the color.

Resection of the gut has been studied experimenually by Solow pay and Stassow Resection of the half the small intentine is usually tolerated by an as well as amunds. Engity per cent of the small intestine is the maximum that can be resected Extremar resection of the email intestine of lowed by durrhors, loss of weight, third, and ibsornal appear. In time these smally cases.

After extensive resection of the sleum there is a compensation of proteins and the primare factor depends of proteins and the primare factor depends of proteins and the primare factor depends on the properties of the formation of the formation

t nal digestion is taken up by the large i testine Resection of the large intestine causes no change in nutrition Garcon (/)

Colmers, F. Spastic Heus I. Grippe (Ucler spa trachen Heu bei Grippe) Z tradi f Ch. q xlix, qu

The a ther report—three cases of ap size if a grappe. All came to operation on count of the symptoms of ikus—ti operation—apu its contraction of the testine—found.

Viry often the diagnosi i testinal grappe is in the when imptorn of thems to prenounced. Therefore it is butter to in the initial incision in the belomain 1 il under loc li narithesia.

thin toverlook true ileus.

The tiology of intestin lignippe not a ticlear

It may be an effect on the intesti. I musculature from the entral nervou system, or irritation caused by diseased glain of it he new ters or a torus effect. Sed by the ontest of the lat. I the literature only behaviorally M. wars (mann, and Mexander ha. described years (are sed on the lat.).

Bărsony T Dueden I Gastric Metility (L. her d. due Jenale M genre Maset). Baen 81 - B. & schr.

The cost iton of jurn sed tonus adjustation in discleral laker and enjoyen picking a sacressed and of land it falls got the luo denuam a levige ted. It each too of the gratin of word true is om monh scribed t secondary gu act i rings a desired it von liggem in the school regard gu urit bal truman I tha bee proved howes (kirshore M gold in dillor

hers) that fter section of the gas norm! ell beightened insisele cost ution of the stom ach remain such company. On the stom perist local perist loc

stometh, the plexus of Aserbath.

The ext tation of the gidne must be not the plexus of Aserbia hashes neighbor the fittee gas explained on the bisses of the sat stin blood and hashes and but the gas are stimulation there is supported by the sat of sat

bas and St th g az proum 1.1 the post to stroublation there muss ke as thom and stall the post there muss ke as thom and stall the post there muss ke as the post the stall post the stall

bulbus nd often st grutton of the accum I tron

In the lower doordenum. The chief role is played by system is premoduly, and unsufficiency of the plane but the ton, low contributes greath it be largement of the bullons and the accuration and it outsides. The exception position of the plane opening does bridly it the certification of ker times the contribution of the primary of the least curve time but my be caused by by the of the terms of the promise discount of the transfer of the transf

dor lenal first t in caused by the after a clear. The proximal spirsm arises through the plens of Auerl h. I the liceal spirsm t the set of the licer ca is leither in the same or through sirst blist of the moveal twee. That if polones with h is proximal, these sort show any contracting.

(pyloroquem) but on the contrary stands apper

The contract bility of sphacter is determined by it proximall of usated bollow orgin. The amount of opening it the poloni depend upon the depret of contract in of th infomath (B ron.) In the detail after the muscle function of the toroich is increased in record one it the internal is mit.

the poloru therefore opens more lel.

The imption described are not al. 3 not b

The injustion described are not all 3 and 13 years (the 1 of the older are and more of an observed in cases of known deep-setted kern The did I linkhilison is not demon trable. In the state of the dandenum I hen is motor in sufficience of the store h. en 1 title of the injection of the store h. en 1 title of the injection of the store h. en 1 title of the injection of the store h. en 1 title of the injection of the store h. en 1 title of the injection of the store h. etc. I title of the injection of the store has been also been seen and the store of the stor

not demonstrable or 1 tory the condition I seed oil depression of muscle (metion has lire th 14. place (diministrius of toors and penstalism). Pressure over the torn the or doublewarm-sage and tent four hom fetting relax the m-sile ext. (from (storn hof) the maximal secritis). Teel. Perior (7)

Bartl & S. Chronic Dundenal Beon Bril J Ser.

Chrone due head obstruction men arree from mber of uses some ma be congruital such as after ring p mera or duode il h tion by alticon beaution but others may be the result of terror growth. The most freque t cause expectal in

so of its rupton or horomality of the each pressure of the mess tern of its each as the pressure of the mess tern of its each as the like it the local of general tors, effects predicted to duors, at it is not it effect in the production of given of dissolvental uter holesystims and pas

It is a motion are gradul in onset ith acute care titus the emperature pair copious omit ung flatulene und epigastric distention beorg-

tion may cause beadache and diminious, and even a multiferror it fine one-of opin in not definitely related to the taking of food and the pain is not as server as that of gastric taker. The presence of bale in the vocation is an important feature of the claim calk actory. The Vary is of grate value in the diag nous, but in many cause the findings of gastric retention are smaller to those of pyloric obstruction As a rule gastric analysis does not aid in the diag nous.

The author reports seven case: In five the condition was caused by the pressure of the meantern vessels on the deadenum. All showed patency of the priores and dilatation of the deadenum with the nutrition at its termination. In the fifth case there was obstruction with driving gastric uler of the leaser curvature. Developey innestiony or gastrition of the control of the control of the control of the sasts, case the obstruction was caused by sear thous structures of the control of the control of the property of the control of the property is the control of the contro

The treatment is directed toward the relief of visceroptosis if its present. If there is dilatation of the duodenum operation is necessary. The procedure of choice is duodesojejunostomy but when this is impractizable or impossible, resort must be had to graffe enterotomy. William J Program MD.

Koennecke, W and Meyer H. Clinical and Experimental Data on Chronic Duodenal Stenosle (kloriches und Friedmentelles zur chronschen Duodenalstenose) Denticke Einer f Chron, chry 70

Chronic duodenal tenous is not as rare as a generally behaved. The authors describe three cases, two of which were operated upon Laparot omy showed that the cause of the disturbances was neither scar stenous or an organic narrowing of the lumen of the bo el. By a duodenojejunostomy the symptoms were greatly alleviated. As seen by fluoroscopic examination, the stenous is caused by movable obstruction, probably the root of the meson tery drawn over the doodeoopsysmal flexure. It is stenoors in the strict sense of the therefore not word, but compression Although t is noughle th t the symptoms may be alleviated by gastroenterestomy there is no basis for this operation in the treatment of duodenal compression I such cases gastro enterostom; is unphysiological because, on account of the stasss of the duodenal contents and the soon-appearing alkaline reaction, there is no obstruction t the pylorus (pyloric insufficiency) and the chyme will flow through the gustro-enterostomy only hen these parts re filled more fully The neutralization of the hydrochloric acid of the stomack also acts unlavorably

The authors reject the assumption that disturb ances of mnervanos may be responsible for stain. If system contents. They believe the cause is change of postucos and pressure in the abdomen, viz. a more marked bending forward of the lower thorace and the upper immber portion of the spine, a de-

crease in the mesenteric fat dilatation and dishling of the stormed or relaxation of the shbondinal wall All of these conditions lead to maplacement of the doodenum in its relation to the rot of the mesentery and the flexure. To prove this theory experiments were made on dors? The lumen was narrowed by means if fascal strips which nearly surrounded the bowd; and were fined to the curvature of the rifts it was found that the picture of chronic disorders it was found that the picture of chronic disorders it is as found that the picture of the rots is a strip of the rift of the right of the rift of the

From these facts it seems evident that the cause of chronic stenous of the duodentum is a mechanical compression at the level of the duodenoyelunal fies ure, caused probably by the root of the mesentery or the superior posentiers entery. Coulty (Outre (C))

Konnecks, W. Experimental Investigations Regarding Duodenal Obstruction and Atomy of the St much (Experimental) Unterscharges neber Duodensk withluss und Magnastonsc). Beth. H. Chr. 9. CENIL 698

The uthor experimented on dogs with regard to the cause of duodenal obstruction and atomy of the stomach and the relationship of these conditions t one another

In five dogs the bowel was ligated and esspecifed from the ribs. In four dogs a batterni subdisphrag matic vagotomy as done simultaneously with the docdenal firstion and in two dogs it was done at a different time.

Stenous and closure of the duodenum alone do not produce the preture of arteriorecentric costruction causing only that of duodenal stenous inh vomiting. Closure of the decodenum with tony of the stomach is due not to mechanical factors are turely but chefly to a disturbance of innervation such as paralyses of the vagua, irritation of the sympathetiss, or a direct influence on the imperficial nerves. Vomiting does not occur. The lengthening of the stomach cuts of the doodenum where it we find most strongly. I man, this point is the end of the doodenum, while in the experimental simulatit was where the stenoued doodenum was inspended on the nil.

Jenckal and Schneppel Peptic Ulcar of the Jeja num (Urber Ulcus jepus pepticum) Destinite Lindr J Chr. 922, ctrsv 137

The authors ducuss the question of peptic ulcer of the jejunum arising postoperatively on the basis of seven cases which they report in detail

In Case a posterior gastro-enterostomy was per formed for pylone ulcer. The patient soon became free from symptoms and gained considerably in weight. Eight months later gartic symptoms developed anew and four years later it was necessary to operate again because of leftmal ulcer. At the

second operation it was found that the milede where was bealed, but that the leignal alors had caused a narrowing of the lumen of the gut. A new span tomous bet een the stomach and the ferenum was therefor est blished on the posterior wall of the stomach The national gain recovered, but I may months there were symptom, which suggested per foration of the I testine. When the abdomen w re opened a perforating alcer which had destroyed the rastro-enterostoms was found t the inneture of the t o Jerunal loops. A Braun mastomesia w v performed further down and a connection est blished between the stomach and the small intest or on the anterior gastric wall. One year I ter there was a renewal of a motoms with signs of pentonitis. At the air of the gratro-enterostom painful tumor was found. Operation as refused. A strict diet was ordered. Improvement follow d. ith absence of Amotom for nine months. Three nd. half years feer the 1 st operation severe 1 lominal pain recurred with continuation ad algors of these Operation disclosed a of alux of the scrading colon of 180 degrees \ coal | 1 amaR intesting has behind and t the right of the colon and pers pted spon t neous replacement. Death occurred t days later

I the second we high ra similar course pd in which sev ral operations were performed for gistro-enterostomy ad Braun austomosis, the the rustro enterostomy ocenure ad the octamous small satestine the upper end of the duodenum w converted not bland as the distal loop of jeju ura was carned objected, cross all waited with the transverse focusion in the stomach, and the lower end of the duodenum as impleted side to side in the jejunum Toda) is years for the opera tion the matient is entirely free from Amptoms

In the third case second overation performed years after a posterior gastro enterostoms recaled t the left of the gartro-ent rostoms communication bet een the try mense colou and the seithaum which we round admitted the tip of the middle finger and as hoed a th mucous peparation of the parts, the opening sutured. transpersely and an aterior ga tro enterostomy was performed. Three day later because of the estab. lishment of a school circle. Braun an stomous Braun an stomowy

In Case 4 because of pylonic alter undateral reclation of the pylorus condung t on E scherge method and an anternor gastro ent rostom; ere done. The intent was then free from symptoms for five months, but I the pd of that time became of ttacks of pula indicating - peptic alcer of the jejunum an team resection of the jepunum with enturing and Braun anastomous ere performed Six month liter it again necessary t operat because of a new jejunal alter which developed in the distal loop of the jejunum. The ulcer was exclard and posterior eastro-enterestom; was done the dutal foon being used. Three weeks later another puptic ulcer was found it the site of the

previous resection and was extra 1. The proper and severe amploons for months, ecoverus should and was discharged from the hometal after arm and half in poor ple skul condition. Fall receiver dul put occur

I the fifth case the jejunal ulcer developed a year and half aft t posterior grates enteredorn as perforated at two point. The perforations were solured and an anternet gastro-enterestors) tha Braum austomou as performed but the resent time the patient has remained well

In the sixth are because of year resection of the a 1 not will of the dundenum as nethered ac ording to the Reschel Puls method Tollower n intest). I hamorrhage the patient recovered but second operation one month later the manual found onetricted below the anatorious by bands of adhesions. The bands are released nd sutured latestinal hamourh ge recurred a 1 resulted fatally in thirteen da Antones showed later perfec time sempal ulcer in the posterior sa tures of the gastro ent routors. had had pene trated it the pancrea and severe herromore

personalis with infrarction the 1 st case wide resection by Reichel method w terformed in 1020 for twoons when From one and a half t t years later her or har occurred i the gustro-intestinal canal A second operation then disclosed a peptic jejumi akeralost the size of quarter close t the potterne anatoms Just below the nastomous two measure

I much nextra present guest the dertal loop of pre num. These ere tirruted nd the sker was se t red | Lacycatf | recovery followed, and up to the present time I enty one months after the operation, the patient is symptom free

On the bass of their inclines the authors beare that since the tendent of an ker toward spectare our brahing may be slight the management should be surgical in order t verily the diagnosis. Of the se cases cited the second third and fifth mir le considered used I the second case the cure at effect if by the sixth operation, wide resection and as tomous reording t Roux in the third case by the sample release asl enturing of the Jepences fist I and an anterior gastro enterestomy in addtum to the already present posterior gastro-criterio tomy and in the fifth case by the auterior gastreenterostomy with Braun any tomous is addition

posterior gastro-enterestom I rom this it min he concluded that in selected cases a permisent cure is transable through consers to measures However as the result of a conserv tive procedure 4) to till very uncertain, I secus most peactical t perform wide resection ath removal of all alceration and new growth in the amount on Haberer amplicata of the alcer and if possible tion of the duodenal stranp rate the remaining por tion of the stomach according to the Billrock method. This procedure is usually possible if the

kerr developed fier maple gastra enterostom CRETTE (Z)

Doxz, C. J. The Pathogenesis of Mucorrhoral Neuro-Colopathy (Sobre is patogenesis de la neurocolopatia minorraca). S pl. med. 9 3 lxx so3

The a thor reports the case fa 38-year old man who after secondary colongmostitus, developed typical mucocohia a th the general symptoms of dystonia of the sympathetic nervous system. Diaz believes the present conception of muco-membra nous colitis should be discarded. Mucous colitis is distinct from vagotonic mucous colitie. The latter which is a true myoneurous of the colon. Das be beves may be fittingly designated as псито сою pathy or a colonic my northers. It may be a pri many condition or secondary to an equired or para typical vagotonia. The possibility that the sympa thetic pervous system and the general condition may be radically changed by a chronic enteropathy makes the careful treatment and study of such conditions of great importance. In the thor' opinion the expulsion of membranes has no other agmificance than the co existence of mucus and increased fatty ecids in the intestinal lumen-W A BREYNA

Lefebvre, C. The Treatment of Chronic Intestinal State by Carcossymodisectomy (Darout chutement churchead de la state intestaule chronique par la carco-symodostorise) Press sed Par o 1 xxxx. The control of the contro

The operation for chronic intestinal stans should be based on the normal function of the intestine I the other forman, exconstruodostony best needs the requirements As there as no historicion is the intestinal himse, the object of an anastonous in the rest of the contract of the function of the flowest value and preserves the frontine of the flowest value and promised color of the flowest of the foreign of the flowest value and the foreign of the flowest value of the flowest value

Stone H B The Surgical Treatment of Chronic Ulcerative Colitie A Surg 9 3 luvra, sq3

When bronic ulcerative colitis is recurrent, be coming severe and resisting medical management, surgical measures may be considered. Of these prendicostomy a semipermanent opening for urigation of the bowel below was formerly favored method but failed to cut out the colon as an exit t faces and arritants. Carcostomy was found to be little better T secure complete physiological rest of the colon the logical procedure is complet the outomy. After any one of these operations a patient ho previously passed from fifteen t twenty bloody stooks daily will be constipated for t or three This is due t the postoperativ paresis, a d in cases in hich appendicostom) has been per formed there is similarly recurrence. Heostomy requires more tedious. Iter care but entirely excludes the colon and gives better results tha the other OPETA LIONA

La performing ideastorn, the author divides the ilcums with the cautery between t pursenting satures. The t blind ends re then abuilted against each other and circuls end to-end satures.

of the bowel is done with interrupted mattress of fine all. This leaves the ileum closed by a double displaying. The loop of ileum just above the ileococcal valve is selected for this purpose. The get about in proximal to the closure is brought up and fastened in the wound, to be opened some boars later for the introduction of tube. In this manner the ileostomy is established and the color excluded. The ppendix is then brought up through

separat incusion and used as an opening to irrigat the color. Ultimately the double displangm is perforated by kmf introduced downward from the decisiony opening and the decisiony is closed. The artificial opening is kept open until all evidence of cohists has disappeared. If W Frix, M D.

Mandi, F., and Gara, M. An Experimental Study on the Saturing of Non-Peritonized Sections of Intestine F Bowing Resection (Expermentelles sur Nahl nicht peritoneshaerter Darmabschatte nicht Erichtsonn) Zentrelle f. Chr. o. zim, \$55

The difficulties of producing permanent union between one perinoused and perinoused scription of intention of intention are met chargely in the lower portion of the couphages, the lower portion of the diodenum, and the segmond. On the basis of extensive experiments or also of serous from the portion of gitt supplied with perinocum, excrete the miscularies microsic lying in der that portion, and after accurately sixtung the muonas, over this area with the cylinder of serous. Of importance for successful results in seture of the nucleon should be a fine the cylinder of serous as the mucos so that the cylinder of serous, which must not be longer than or cm does not come land contact in the intentian contents. Kata (2)

Berczeller L., and Szliárd Z. The Spontaneous Formation of Amariomoses of the Intestne (Ueber spontase Asastomosesbuking des Darmes) Bass Miss Bukssels 9 xxv 000

Douge experimental research on the sulfination of starch preparations taken by mouth, the authors octosed the intention by means of a silk lighture placed in the lowest part of the rectum. In white rats of medium size the got was peasable spin silver into of medium size the got was peasable spin silver into our or firer days, but not in mice. The authors regard this fact as proof that spontaneous repair does not occur in the same manner in all species of animals.

Horsacco (2)

Armstrong, A. Pulmonary Tuberculous and Appendicitis. Assess M J 9 3, 227, 446

Therecions of the vermions ppendix is more common than was formerly supposed but a often overlooked. The possible association of appendix is to pelmonate at the pilmonate of the surface and therefore a sufficiently emphasized in the surgical inferiative. During period of two period of two war subjected to appendix on the surface and the periodic two productions. We note that the presenting of twist culture and the periodic of the presenting of twist culture and the presents of the Philyse culture and the recent of the Philyse culture.

Institute t be as high 50. All of these patients died of ad anced t berculous

The percentage of tuberculous ppendices removed at operation as reported in the literature varies. Deaver pressit as on per cent. Murphy as

per cent. Herason, as from t.t. 2 per cent. Lock wood, as 2 per cent. F.tz. 12 per cent. and Mayo, as 5 per cent. King found a tuberculous appenda in 25 per cent. of twenty eight cases.

kelly reported case of primary tulerculous appeadus ad mentioned file others from the

Persons operated spoo for appendicular frequently des lop pulmonary tulercules, the focus of i fection ha lag been present i the lungs at the time of operation. Hence except in an emergency such as fulminating pu appendix, carel i preiminary history and physical examination should be made by one accusioned terainne and trest pulmonary.

tuberculous

The author endorses the removal of the diseased appendix. Ills conclusions with regard to the tuber.

culous appendix are summarized a follows

1. Appendixtus is often tuberculous. While it
may be primary it is us all; secondary t focus
for the lungs, either active or dominant. R. ely it is

secondary t a lesson in the intestines

a Appendicitis is often followed by all beath
which culminates in acts pulmonary disease

3 A careful history and physical examination ith the X ray if possible should be made of all cases bout t be operated whom, t discover a better

an active or latent lesson is present

4. Local ansesthesia should be used, with gre-

rygen as a second choice lather is t be condemand for those c ses g. The con alescence should be prolonged t

3 The con alescence should be prolonged t void subsequent activation of an lung lesion present Walter C Burker VID

Kuttner L. Practical Advice with Regard t the Disposals and Treatment of Discovers of the Disposals and Treatment of Discovers of the Disposals Presisting After Appended tomary (Trak tacks Extradepts foot the Pagence and Echand long der tendampathentera Wornel and hear der tendampathentera Wornel and hear the tendampathentera (Trak and heart an

Abdominal pain occurring aft prendectoring ray be cased by addisons. These ret be expected soonest in cases in both the inflammation win not conducted it has prendict alone and particularly those as linch primary closure of the operative control and proposition of the prendict and proposition of the prendict and proposition of the pro

with the sec of opaque meals and enemias is necessary. Frequently however it is not adhesions which cause the complaints but fusctional or an inflarassatory catarthal process producing afters ting constipation and durrhees. As rule these symptoms

tom were present previous to the operation, the ppendicitls being only pirt of a diffuse intestinal discuse

More frequently astric or denofmal sters in as of continuous or internation pals, the periodectomy. Disease of the bile pressure see cally juil stood disease, is another case. In the female disease of the address must be considered. Disease of the unany treat, specially pristin, say git use t justices free operation. Disease of any abstraint organ may be responsible. Hospital disease of the entroperation of the service can be enclosed, a dust rhance of the service of

LIVER, GALL-BLADDER, PANCREAS, AND SPLEEN

Margaracchi, O Non-Paradite Cysts of the Live Especially Rollitary Neoplastic Cysts Unibonia Cystadersona (volte cuts non paraston del ferat con particulare repurdo alle cut asplantade solitare columdesona malecular) Pode kone q s m ser her do q y mi

Non parasitic cysts of the la er are rare. Mar garactin reports to cases. I the first there sais solutary exist of the right lobe from which more than 8 laters of final ere drained. Following this exist tions the cyst was manufalhed as it was found impossible i extingut. It. I the second case then are multiple coxt in the lobe of the laver. Then were penctured but it was impossible to remove the mass. The pattent conditions gradually be-

came worse and he died—short time later.
Margaruschi gives short histories of fill; creeof solitary cyst of the her of neoplastic surgin, lash
be collected from the hierature. With regard to the
pathogeneous, it is generally agreed that there cruit
are neoformations due t. proliferation of the heret.

enthelium of the bile duct

Margarucchi enters into erv detailed discusson of the anatomorathology etiology symptoms etc and includes in his article several photomicroproper of the crist alls. W. A. Reev.

Hartmann-Keppel, G. L. Ascaridisch of the Liver and the Bile Ducts (Lacarshase de fou et éts vuez lejoures). J. de. hr. . g. j. xxi. 57

The other reports t cases The first was that
of a 14 yea -old man whose symptoms led to

dispusses of liver buces close t the skin Twe lumbraced womens, a and sa cm long, response in the pass of buces in the left lobe of the liver. The second case was that of gard a years of ho was subject t epuleptisform convulsions and

ttacks of prim is the region of the liver. The history indicated intestinal ascaralisms. A diagnosis of bisecs of the left lobe of the liver was made 11 operation. hepatic baceus containing a deal saccins tom long as found.

Ascars larve may develop nd remain as the intestine or may reach the liver by the portal visi and develop in the glandular parenchyma, or may reach the liver by the bile ducts and develop in the gland itself or become arrested in one of the ducts

The author treats t length of the pathological anatomy symptoms, and diagnosis of the affections of the liver and bile ducts which may be caused by

the secure

Although I amorbic aboves emetin not only overcomes the mutual congestion but ecording to certain uthors, may cause the resorption of crea large collections of pus rendering operative evacuation unnecessary there is nothing to show that vermifuges may act in the same way. Never theless the early administration of a vermifuge is the best method of preventing complications

W A BREEKAN

Mayer L., and Konings, J. The End Results of Omen topexy in Circhosis of the Liver (Résultata Sourcés de l'orsentopexie dans les cirrioses du fose) Bruzeller-mid 923, 24, 50

1904 Monprofit collected 24 cases of bepatic curbons treated surgically. The results in eleven are unknown In the 3 others there were seven operative deaths, nme deaths from shock, and twen ty ax deaths from other causes, total mortality of 18 per cent Improvement in the technique and the use of local angesthesis have greatly reduced

this high mortality

In the uthors opinion, Talma omentopery as sale procedure the mortality being due, not to the operation but to progress of the condition for which it was performed. In this article three cases are reported. The first patient, who was operated upon in 9 5 for biliary curbons, is still in perfect health and able to perform heavy work. The second, who was an alcoholic, has remained cured for eight The third, who was operated upon frems three and one half years go for hepatic our

hours with considerable ascites is also well

According to Montprofit statistics, the percent age of definit recovery from omentopery in cir rhous was so per cent. This included cases which could not be treated a th the kmile. I king into ecount the improvement in technique, the utbors estimate the chance of recovery at 75 per cent. especially if the patients are sent to the surgeon in good general condition R A BRECTA

Braum, W. Burgical Interference in Acute and Subscuts Atrophy of the Liver (Chrurpsche Fuguil be skater and subskater Leberatropine) Alex Britanche 9 5 5 5

Since the World War acute and subscute atrophy of the later has become far more prevalent at an earher age. The most severe cases are not seen by the surgeon but, on the other hand, the less stormy forms come to operation sooner or later because of the impossibility of making a differential diagrams bet een obstruction of the common duct and seconding cholangets. The withor has operated upon to such cases of trophy of the liver In two

there was a combination of calculous cholangitis and acute atrophy of the liver

Case r The patient gave a history of ten at tacks of gall-stones. The illness for which the author was consulted began four weeks previously Icterus had been present for two weeks. A stonefilled gall bladder was removed. The bile ducts were found free from stones. There was no drainage of the bepatic duct. Death occurred the following day. Autopsy showed severe acute strooply of the liver

Case 2. At cholecystotomy two stones were re moved. The walls of the common dust were soft and not distended. The surface of the hver was and not the somewhat hardened. There was no further appear ance of bile in the passages. Death occurred after five days with evidences of cholemia. Autopsy showed central necrosis of the liver lobules.

Cars 3 The patient was an unmarried woman of 33 years who had been ill for twelve weeks, and for nine weeks had had interus with fever and chills and clay-colored stools. At operation the gall

bladder was found only slightly changed. The choledochus was not distended. Operation con nated of cholecystectomy and drainage of the choledochus Microscopic examination of a small pacce of the liver showed acute atrophy. The flow of bile was well re-established and the patient re-COVERCO

Case 4 The patient was a man 30 years old who had been ill for fifteen days and had had leterus for four days. At operation the sall bladder was found greatly distended but there were no stones. Chole cystectomy was done with choledochus dramage The bile passages were normal. Histologic examina pacce of liver aboved broken down and tion of defective liver cells with small-cell infiltration. There was an active flow of bile. Complete recovery

Case 5 The patient was a girl 18 years old who had fatal corpus luteum hemocrhage with atrophy of the liver

The author raises the question whether in such cases it is better to confine oneself to an exploratory laparotomy or to drain the bile passages From his own expenience it appears that drainings may exert direct healing effect upon the parenchymatous

disease of the liver as it removes the stagnating bale and the toxic degeneration products of the liver cells Dramage of the passages is indicated also in unfavorably progressing cases of trophy of the liver WORLDSOUTH (Z)

Flint, E. R. Abnormalities of the Right Reputic, Cyetic, and Gestreduodenal Arteries, and of the Bile Ducts. Bru J Surg 913, x, 509

This article is based on 300 postmortem dissections. In the author's opinion, anomalies of the hepatic and cystic vessels and the bale ducts are more frequent than is generally believed. In twenty five cases the right bepatic artery was found to peas is front of the hepatic duct. In forty-two, it arose

from the securior mesentene artery and in a few cases there were t vessels, one from the henatic tru k and one from the superior mesenteric. In few older person it was found tortions and dis-

placed t the right

Anomalies of the cystic artery re less common, This exel ha been found t arise from the left henric and a stro deoderal rieres and t pass ! front I the common hepatic duct. Of more importance is the finding of accessors of six arters ins ing from the right ben tic gastro duodenal or sunerior nancir (uco-disodenal rienes. This m. seen russing long the course of the common duct and its presence may account for the occurrence of severe and perfected harmorthage when the duct i opened

Approaches of the duct, consisted of low functur, of the cysik and bepatic duct. In a few cases these met in the portion of the common duct which her within the duoteness. The cystic duct may be found ery tortuous, so that I ma meet the common duct from the front or the left instead of from the right. I several cases in accessory right benative duct a found. I them joint this rose t the extreme rusht of the nortal fissure and loaned the extra heratic ducts bet een the junction of the left and right heretic duct, and the point where the cristic ent is the common duct. In one specimen it e tered

the Castle duct

Vule from the dangers of harmorrhage from corrects or displaced cystic ersel dampa operation the duct, themselves remore careful a catication About I positions I the duct I veriblery to the common or hep the duct d ring boles; steetom I cases of a cressory right hepatic duct there is d ager of k sag the duct antied this resulting in le lage of bile fier operation. The thor cites high de th occurred from general periton in after operation oil topes revisled the lido men part Its filled the buc the heature on the evalue duct a united but a accessory benatic duct discharge glade. If believes this stat of aff in spresent non yeases luch dra tale fter holecystectomy If I yors drain to fter hole eystectomy mi culls ttention t the da gers of clamps g and cutting structures on marse thout tirst making excelled dissection and exposure WILLIAM J PERFORM N.D.

Peterman, M. G. Cholecystitis and It Com-plication Surg Gyner of Unit 9 1 xxxx 1

From the thorough review of the literature on aperimental holecyst tis which is given in this article the following onclusions re-dr

The intravenou injection of organisms in flicient numbers is also ye followed by the p perrance of the organisms in the bik. They reprobably carned to the fiver in the blood stream. excreted in the bile and borne by this medium int the gall bladder. At the same time they may be c rried int the all of the gall blucker by the blood stream and lymph tics

2 The intra enous injection of unicat orem lams i sufficient numbers produces a cholecyann in a high percentage of cases

1 The organism may be demonstrated at the bale one half t t o minutes after miravenous m jection, and may be found in the mill bladder ther the blood has become steril-

4. The sample injection of even large numbers of organisms int the lumen of mormal gall bladler does not remaile produce halocount

t. The injection of unions occurrent into the hence of a call blad ler in anticcent numbers after herstoon of the cystic duct and levels regular preduces a cholecystates

6 Although cholecystum m v be due t hams toernous infection at is not inframently break-

eccou is come

Cholecystitis is const. thy accompa ed in benatity. The character of the lesson in the liver determined t a certain extent by the original

course of the disease in the gall blad ler On the basis of the foregoing conclusions if | lowing problems were in estigated (1) the passage of organisms int the bale of the gall blatter after i sections int the nortal and systemic errs, as influenced by lightion of the cystic duct a 1 civili () the occurrence of organism within the wall of the gall bladder t a distance from the mucous som

after portal er injection their descent in the bile ha ing been prevented by lightion of the cistic duct and evels and (1) a study of the complications of bolecratitus produced experimentall A extensis series of experiments on does and rabbets and cheucal study of 40 patients als

duence of the gull bladder are reported. The follow ing conclusion were drawn from this work A y apenmental method by which virulest or

ganless are carried through the blood stream followed, in the directly 1 the gall bladder m joint of cases, by the development of a choic stitis. The import no of the lymphatic rost in the pathogenesis not only of cholecystris but also of it omplications, such as pancreatitis begann tel roll man tron of the common duct is em physized It is possible that I the majority of cases the holecystates is produced secondarily t benut to by humbatic extension

Painer D W and M klm, G. F Gall-Scores Americand with kidney kinner (sweeth j ŭ

The athors report the case of ocasa, aged to he had seffered the track of pass in the left ide for three or four ever This pain as often " t require h podermics soreses 25 91 794 prise t oustanth. The cut pun cune on ab out roung and as of st blung and borne nat re. It began in the ren I region and raduled dow and toward the bladder At t mes it as re heved by the draking of large amount of hot ter I ent t cars ago the patient had posed

gray 1 ad blood in the urrae

Food intake did not ppear to influence the pair although occasionally there was more or less gas which caused blosting and belching Complaint was made of some distress in the region of the byer but there was no severe pain on the right side and no nundice Chronic construction had been present for ears. The patient's maximum weight was 5 The At the time of examination it was go lbs.

Physical examination revealed some tenderness in the gall bladder region and considerable tender ness and muscular rigidity in the left renal area Urnal as duclosed trace of albumin, no cast nd few red cells \ ray examination aboved two one one shadou immediately to the right of the intervertebral dues between the first and second humbar criebter and a fairly large irregular opeque shadow on the left side bout 35 t from the side of the third lumbar vertebra. A diag noses of tone in the left kidney and probable gall

tones was mad In pyelograms the night renal pelvis appeared normal but the right ureter as kinked t the level of the secro ilia joint and the kidney was lo Immediately bout the right kidney were tw opecities high, from their position suggested gall stones. The openity in the left kidney was pourently stone in the pelvis

A stone as removed from the pelvis of the left hidney by pyelobthotom), and cholecystectomy as done ten day later. The gall bladder also con

tamed tones This cause is of interest because if the ext emrarity of the pathological combination the bacace of infection in the urological tract and the absence of ymptoms in the maple ed right kidney

C F ADDRESS, M D

Abell, I Papilloma and Adesona of the Gall

Bladder A Serg 9 3 havu, 76 Beaugn tumors of the gull bladder notably papel lorna nd adenoma, re not so rare as was formerly believed Such tumor was found once in every t unts three and one half cases f cholecystectomy in the Vay series and once in every thirty at cases in the other series Papallomata occur usually in mucose high is the sit of chronic irritation In the gall bladder both papilloms and adenoma ms occur with inhout stone formation. The chascal syndrom is that of chronic cholecy stitus plus

tumor Of a88 gall bladders subjected t routine micro scopic examination eight presented benign tumors. five denomat and three papillary denomata I seven of the cases gall stones were present. The author reports case in buch the growth removed

t the first operation as believed t be malignant Three years later the patient was again operated upon for obstruction in the common duct. At this time the gall bladder had disappeared and the common duct as greatly distended by tumor timus b ch proved t be non-malignant papellary adenoma H W Free MD

Brocq P., and Binet, L. The Pathogenesis of Hemorrhagic Pancreatitis (Pathogenia de la pantriatat bimorrhagique) Press mile Par to 3 Little

In experiments on dogs the thors found that simple figation of the principal pancreatic duct is not sufficient to cause hemorrhagic pancreatitis, but that if the ligation is supplemented by the intra canabeular injection of certain flinds, hiemorrhapic pancreatitis develops in from twenty four to forty eight hours. Solutions of sods, formaline, chloride of zinc, bile, and intestinal jusce will produce this result. The others have studed also the effect of bacteria, toxins, and leucocytes exerted directly or through a change in the reaction of the bale and

testinal flouis

The experiments showed conclusively that both bale and intestinal secretsons increase the activity of pancreatic secretion. Bile is known to act on lipase one of the pancreatic ferments, causing the solitting f (ats and setting up steato-necrous I'ure intestinal juice enterokinase to directly upon the pa create ferment trypun. One of the conditions essential for the production of hemor rhanc pancrestite is the ctivation of the pancretic ferments by an exogenous f ctor. The authors show that this I ctor is usually the bale o intestinal secretion. The mechanism is as follows

primary lesions to necessary vis a harma toma and teato necross. Trypun activated by the experiences factor in the interior of the pancreatic canals hich, unlike the intestme are not adapted t such activation, digests the walls of the canals and injures the exicls, causing himorrhage ad necrosis of the Dancreas. The steato-necrosis is the result of the splitting of fats by house (activated probably by bale) with the formation I soups

Clinically t has been frequently demonstrated that there is usually reflux of bile due to pressure in the bihary ducts or spases of the sphincter of Odds, or that intestinal junces reach the pancress because of duodenal stasts due to mesenteric cord. FORMULAE, OF Intestinal anaim

in the surgical treatment removal of the hematoma and the accrotic strips of pancress must be supplemented by an operation t discover and remove the primary cause. A careful exploration of the bale ducts, stomach d odenum and jejunum is necessary W A BREDIVAN.

Barling, G. An Address on Pancreatitis and Ita Association with Cholecystitis and Gall-Stones. Brd W J 9 1 1, 705

Barhog briefly reviews the anstomy of the gall bladder bile ducts, and panereas, emphasizing the fact that the lower portion of the choledochus and the ampulla re commonly surrounded by the head of the pancreas He believes that in most cases of pancresums the dominating factor is infection per mary in the biliary passages II, when the parts are removed t autops) the ends of the duodenum are bratured and the bowel is filled with colored fluid, it

is impossible I sepace field late the dust in forcible compression. It is true bows or that the injection of terric bale or other flunds into the pan credit dust in ray cause purceratist. Opt, a see that the inportion of one ill calculus in the amppella of a ter may giv, meet porce tile by shout of a terric pay in meet porce to be shout borne out by the thore experience because in four cases! I such a stone was removed from the mpolla there a s no explore of panere til t any time.

It would ppear that I fertion plays the chief rôle whether it arrives in the gall bladder not descend along the base date of according to the research of cut purceast in two creates are crief in which of cut purceast in two creates are crief in which of cut purceast in two creates are crief in which of cut purceast in two creates are crief in which on the discontinuous control of the chief of the

leute panerent ti masurgical emergency tiended with rather high mort lety. This discuss should be borne in mind whenever in obese patient. It history suggestive of g il stones is solden! sented with severe enurs true pum sociated with shock subnormal t interature omiting great prostration tenderness in the mid-epigastriam pain referred t the back and dorsal spine rapid police and occasion The du ally co nosus Glycosuria nconsta t static index of the arroe (Loes test) set is pecially high - d the author regards this text of considerable help. A the pilet of Langrithans tend t escape destruction, the outlook for patients recovering from acut pracreatitis is usual good even though large portion of the pancress may be destroyed. The uthor cites one case caused by calculus in the doct of Warrang. All of the gi netal tusue of the practes a destroyed and ultimat ly repliced by fat and event By carcinom devel eped in the organ I the slt of irrit tion from the stone. The slet of Langerhams ext rad destruction and on only one occ wonthere tra sunt gh cosum

In Both cases of sub-t-p necessaries see the suborgal stones are present. The m-port of these patient are more seroosis. If thus these red fernag from grill stone code above. It not it can't to different to better and stones puncreat the present in every cur. I the majorit some in present in every cur. I the majorit some in present in every cur. I the majorit some in section of the common don't to the section of the common don't be the case so found in the protocord or to. The true there is consisted in drainings of the common don't into our without choices (retron). The pararra a set is not without choices (retron).

melsed in any case

In the author' cases of bronse panernatitis the
condition was usually hunted to the bead of the pun

reas, especially the rose surrounding the dotdochm. Here against the discuss was senouted with calcula in the pall bladder and common doct. The clinical picture in difficult is differentiate from this of carmonas of the he d of the pasterns. Their site or emphasizate the importance of remembering the possibility of the present of calcula in the pasternois and the production of the production of the contraction of the present of calculate and the pasternois beautiful the site of the production of the production of the least of the site of the production of the production of the site of the present of the production of the production of the production of the present of the production of the production of the site of the production of the

head I the gland Barling is con inced of the great value of recorder surelcal errors I the case of 60-year old puners deeply is reduced and with a distended gull bisilier and a pulpable pancreas, the diagnosis of caronera of the pracrets a made. On account of the history of it k of colick pain exploratory liparotory d red. At the operation the gall blooder was for didistended not the duct and gall bladler were free from culcult but a masser modulur swilling discovered in the head of the pancress. This regarded as Imost certainly makenure. The patient died. At topsy small calculus wa found cm from the ampulla in the center of the pancress The thor believes that an exploratory men of a the he d of the pa cress would be moraled the present of the stone but great respect should be entertained for the nombility of the subsequent recape of puncticatic secretion and the dimer of the occurrence of harmorrhage from the panerealice-

deedmal terries. In conclusion B ring states that in cute catarnal µ nodice in young persons the letters is probable during the linding matter of the based of the purcease of the lookedown.

Jone W. Name, M.D.

Vissegia, A. C. The Physiopathology of the Spicen J Lines, 9 3 hs, 8

The thorattempts I am er the following three

questions

I loss the piece belong to the group of endoerin glands producing an internal secretion.

Luder certai conditions as the piece the
primary came of certai decision such as opens

anzmi /
3 Is the sphero true immunising organ
The many important pressigntions to discert
the internal secretion of the sphero has not yet sec

est II solved the problem

The relation of the spleen to the arrows due to

as he retined on an incomment limit feature which the form and the fact that some core of hymothetic junder removal of the spice, followed by core may be explained by the servosion that the spices of thorates some horsone has the spice of the removal of the servosion that the spices of thorates some horsone has the spice of the servosion that the spices of thorates some horsone has the spice of the servosion that the spices of the spices of the servosion of the spices of th

The clinical and anatomo-pathological abserts torm and appertmentation show that in everal discussions of the properties of the half again the sphere has on title immuniting power. Morans II Kara, M.D.

Neumann, P t Psychic Disturbances After Splanactomy in Cases f Pernicious Ansemia (Psy chacke Stoerengen nach Milorostorpation ber Annemia permiciona) Alia II chanche 9 2, 1, 2429

The patient was a 42-year-old woman The en throcyte count was 50,000 The day after spienectomy the blood examination showed 00,000 erythrocytes, so coo leucocytes, and so per cent hemoglobin The subsequent course was character zzed by increasing mutability vomiting refusal of food, and an axious expression. In spate f continged improvement in the blood pacture (after three weeks the crythrocytes numbered 3 760 000 and the hemoglobin equalled 4 per cent) the disorientation as to time and place became worse and on the fifty first day after spienectomy the patient died in profound stupor

Cem The patient was a man 48 years of ge The blood examination showed erythrocytes, ,180, 000 lencocytes, 7 700 and hemoglobin, 4 per cent The day after splenectomy (Rumpel) the

erythrocytes mumbered 3 90,000 the lencocytes umbered 3 ,000, the harmogloban equalled 45 per cent, and the patient was in peculiar stuporous condition with hallucinations from tim to time In the course of week the symptoms receded, the erythrocytes decreased to 300,000, and the ham

giohin decreased t 30 per cent.
The author is of the opinion that the psychoses. were due t the loss of the spleen. As the formation of antitonins by the spicen ceases and the tonine cir culate in the blood in increased amounts (the the less erythrocytes also are no longer destroyed) brown interporation results. In the first case the liver failed t take over the function of the spleen, and in the second it assumed this function lat

W они от при стат (Z)

MISCELLANEOUS

Hodges, F M. Subdisphragmatic Abscess. J Am M An g 1, ben 55

I the uthor's senses there were none cases. The abscess was on the right aide in seven and on the In three cases the abscess followed an ppendectomy A gunshot ound, a perinephritic abacess, resection of the crecum for curcumoma, perforated duodenal alter perforated gastric ulter and multiple liver because were the preceding factors in one case each. Four of the patients recovered, four died, and one is still under observa tron

I only one case as definit diagnoss made over the coenteen ray examination. The evidence prior t the roentgen ray examination fursushed by the roentgen ray is due almost entirely t changes in the position and contour of the dia phraem unless, in addition t a change of contour there is an air pocket or collection of gas beneath the disphragm The disphragm a most al) elevated, but as lower in the cases of extraperatoneal abaceas than the others. Its doese is accentuated, and is exemptons are limited. In seven of the author

cases empyema was either suspected or diagnosed prior to the use of the roentgen rays Promicuous needling is probably never justified until every other method I diagnosis has been exhausted. The author reports two cases bereily. His conclusions are

follow The occurrence of subdusphragmatic abscess a still sufficiently frequent, especially in post operative cases, to be of marked chinical importance Early treatment usually leads to cure while

lat diagnors means senous complications or death. 3 A history of recent abdominal operation

infection followed by an unexplained increase in the pulse rate and the temperature makes necessary a careful elimination of subdiaphragmatic abscess 4 The roentgen ray is very important diagnos-

tic aid, and still almost invariably give definit unformation In any acute infection in the upper abdomen.

an elevated and need disphragm should suggest a subdiaphragmatic abactas

6 A chaphragm which is normal: position, con tour and motility usually chranates the possibility of an abscess must beneath

7 Promecuous needling is never indicated as in this way the pleural cavity may be infected

E C ROMONICE, M D

Hutchleon, R. The Chronic Abdomen. Best M J 9 3, 1, 667

Chronic abdomen is usually found in unmar rsed or childless married women of the comfort

The symptoms are variable usually including construction, fiatulence, a feeling of general weak ness, and exhaustson. The history is chafn of repeated operations and visits to various cures eated in most minute detail

The findings consist of visceroptosis, muco mem brancos cohtis, and morbid psychological state The most important point in the treatment is t

catch the patient before the starts on the round, of surgery Then comes the fattering cure, followed by efficient abdominal support and attention t the bowels. The morbid mental stat is best cared for by something which will occupy the mind WHILLIA E SELECTION, M D

Nather K. The Preperitonesi or Retroperitancel Routs t th 8 byhrenic Abeces as the Typical Operation (Der prac oder ratro paraconeale Wex

assa subphremathen Absons als typesche Operation) Arch f Bis Chr 922, carn, 24

The author first gives a detailed description of the subphreme region Peritoneal folds divide this region into several parts. On the basis of anatomical specimens Nather distinguishes a right upper antenor and posterior a right lower and left upper and lower anterior and posterior part. In the ma-jority of cases pas will be found in more than one of these spaces

I ther describes the pathologic austims of the various bisesses in det. II He includes abong subphrenic beceves those pa collections often de acribe I as retroperatone I phlegmons. As acres of oruga of abphrenic abserves relt be considered first the appendix, then the stoma h nd duodenum then the li er and bile ducts, and more rarely the pancreas, kidneys, and other abdominal orgasome kinds of subphrence because the tri ngul r figure of dullaces described by Barnard is character. HIK

With regard to the operative treatment the author st testhat it a generally agreed that becomes point tex top rd the belominal cas to should be presed from this ca its. Abscesses are the toward the thorax re often occord transplentally but Clasmont opens these bucroses also by the prepentoreal or retropentoneal routes. A o-em incresso parallel with the cost 1 as rgua is in de low it the peritoneum in front the fager mierted t the bicess through the orden too prepentoneal twee and at this point the peritoneum is opened. If the retreperitones! pproach incision I made on the twelfth rib absort t the spiral proces the tw lith rib is resected, the muscles are freed from the repal I sets blunt hooks he inverted upward to protect the pleural gap th baces is pprouthed by blust dissection and the subphrense space then punct red If pormal personeum is encountered in either of

these t routes an herasa es be ea luded th certal I Rent (/)

Andrews, C. F. Primery Retroperitoreal Surcoma A Report of Twenty light Cases 5 g Cymer & Odd 9 3 12 14% Primary retroperatorical surromat originate he-

hand the puntoneum in the arcolar or admose tissoe I haph glands, ad occasionall i the ertebre. Thei origin i independent of an orgauch a the knines or adread. They are to be disti gushed from secondary retroperstoneal sacomet hich usu ily originat in the testicle or

OTEN The literature reviewed by the thor contains the report of of cases I these Andrew add thirty four cases observed at the M m king total of as proved cases. The linguist tumor on record weighed 14 lbs and removed by Bull

The ges of the patient in the M (bnoc series ranged from \$ t 6 years. There ere t ents three m les nd fis females I ouls one case ere multiple tumors found. The growths appear ith lmost enu l'frequency on both sides of the Informer

The monthons are madious in onset indefin t bdomiaal prims, which it times are colic like payers, vomiting and giscous distention. Pais in the lumbar region and leg is common complust Half of the patients had normal bowel government. 7 per cut had distribute and 4 per cent had cus stipution One kid itemat itacks of diarriers and con treation. If orders as persent, it manly begin t the ankle and extends upward. Occasion all there i unnary freezency dynama, or kenn t n I under may be caused by presente on the common duct. Loss of weight and strength are very constant findings. There is slight fever at moderat secondary anema The times, and crage duration of amptores tratal the time of

examination was circle months

The mention ray aids in the chargons by robust out gretro intestinal mas we aid in confunction ith the cystoscope 1 hounstone ecut unasy tenen The sarcoma i usually deeply placed may be roble or immobile firm or cystic smooth or irregular tender t the touch or painters. The most claracteristic finds g i the location of the color, which rest un a grown on the anterior surface of the turner The differential degross may be tremely deficit if not impossible

Metastass occurred in 11 per cent of the cases being most common in the liver hines and hine glands but formed also in the spicen, hidner skin omentum, muscle pleurs, heart, tone spend cord dura adren L ad mesenters

The most oramon type of sarroms is the small round-cell or lymphosarcoma. This also is the med maken t Other types to the spindle cell, fibrosarroma in ed cell fibromy roma, my rotarrowal, m) so osterchondro surcoria, and guat-rell sir coma. Such tumors may become cristic because of harmorrhagic mucosil, or purakat digeneration

The result of treatment of retroperatoreal sar been most unsatisfactory Potamare coma h solde h been go en internally but about results. I some cases Coles serum seem t be pathatn Surgery has been the tre twent of choice for years but tre too oft a a forform hone I est oft est) seven t more ere moperable seven ere remov completel possible but in fi cases the terms recurred and one patient died the da after the

operation The ombination of rocatgen ray and radius ort uouvil gives excellent result Several pa tient ir non undergoing this treatment at the Cli le I some cases the mass has entirely dis appeared and the patient h gained weight and attempth and is able t carry on his ock list too earl t clum permanent un but even if this great improvement is only temporary it is ell orth hale and the procedure seems t achieve more than

an previous method of treatment. It is also of diagnostic alor 1 carrons will shrink raped in the course of t we've treatment while if the man is not surrount so have has been done

GYNECOLOGY

UTERUS

Petersen, A. J. Mised T. mors of the Uterus. J. Leb br.Cl. Uce. 9.3 vm 359

Mixed tumors of the uterus contain a variety of morehistic trusters and as smooth and travel music fibrors connective tumor (at, bose, cartiage molebula truste and certain undifferentiated tissues sterved from the mesoderm. We have monograph published in one contains review of the mesoderm to the terus reported in the literature up it that time and explains then origin by displacement of embryonic mesodiative tissue certs along the course of the wolfian duet.

State Wilms monograph many other muted tumon of the uterm have been reported A mm may not fifty of these demonstrates that twenty seem occurred in the fundus of the terms and the others in the cervic. Tharty is contained cartilage four bone fourteen smooth muscle eighteen struted muscle fore fai, is a endothelium three,

curemons and almost all surcoma tierue Probably the most characteristic feature of these t more is their histologic structure, that is, their content in variety of mesoblastic tissues. Almost Il of the mixed tumors reported are regarded malignant although benign tumors are recorded (Perlstein) The mabignancy is manifested by a local recurrence after removal rather than by the ppearance of remot metastases. The metastases, hile afrequent and late usually do not contain heterogeneous tusues and occasionally contain transa sot found in the primary tumor. T enty ught | cent of the report of mixed tumors re sewed mention metastases most of which were onfined t the blomen pd pelvis Tumors of the fund seem t infiltrat the pull to tissues later than those of the cervit. M xed tumors of the aterns ha been reported for ges ranging from years t 25 vents but to per cent has occurred in women over so excess of the Literate of the second to have no relationship as mixed tumors has been found in ullim rou omen as often as in multiparous women though they re not easil differentiated from

other and guant tumors of the term. The dispress depends finally upon the histologic The dispress depends finally upon the histologic examination of the tumor tissue although the presence of artistice or other characteristic terms in meses large, resough for recognition on macroscopic alternations primits. It talk dispress at least alternation primits. It talk dispress at least time and the duration of life after the presence to a miprious in small, from one and one built to it may be a small from one and one built to it. The process of magnetic properties to reproduce the process of magnetic process and the process of the proce

after operation

Briefly the sahent features of two tumors reported in this article were as follows

The first tumor was found in the body of a terus surgically removed from an unmarried a oman aged 50 years. The chinical diagnosis was malisma t fibromyoma. The growth was 8 cm in diameter The luning of the uteros covering t contained arregular polyte and in the tumor large masses of tissue were recognized even macroscopically as carti lage Microscopic preparations contained by his cartilage trabecule of bone, smooth muscle liveoli of round and spindle-shaped cells, and fibrous tissue. In the sections studied, about a per cent of the tessue was bone, 35 per cent was hyalin cartilage 35 per cent was amouth muscle 30 per cent was whit fibrous connective trane, and per cent was alveoli of round and soundle cells. The patient died from recurrence of the tumor in the pelvis three months after the operation and one year after the appear ance of symptoms.

The second tumor as dasposed clinically fibronyman. The patient was an unmarried soman squares of gr. The uterus was removed completely. Microsoporally this immore contained large masses of fatty areals tissue separated by bands of fibrons tessue in which there were small groups of cartilage cells and narrow bands of smooth muscle cells. About it per cent of the tissue was cartilage and amouth muscle fibers, 5 per cent fibrons tessue and op per cent fatty areals russue. The patient is living and elliton years after the operation and six years after the operation and six years after the operation and six years after the appearance of years the second or the operation of the patient is a second or the contract of the operation of years the operation of years after the operation of years after the operation of years after the operation of years the operation of years after the operation and six years after the operation and years after the oper

CHDTLUD

Hartmann, H. Fundal Hysterectomy (L'hysterec tome fundame) Gyndr d elid 9 1, 420

Under the title fundal hysterectomy Lectue and Gaudard Albumes have recently described the blatton of the fundus of the titlers and of both the sit the conservation of one owary or at least a substantial fragment of one owary. A originality a channel for the idea As far back as 1500 L citle demonstrated that the conservation of an owary and considerable portion of the triene mesons is sefficient to assure the perhistence of the measural function. The technique recommended by Lectu

After proper hemostasis the diseased ovary and both tabes are liberated by dissection whereupon the uterms attriess are ligated just below the plane of the uterms section. This plane while consider My higher than that of the usual supravaginal hysterectiony as low encountry to include all these

bysicrectomy is low enough to Incide all that por too of the uterms which ordinarily shows the great ext evidence of disease, i.e. the mocean of the fundus, the uterms horm, and the interstatial portion of the

s briefly as follow

tubes A curcular cone haped incident removes the horly of the uterus with all it att. Inherits leaving segment of the terror strendung at leat 3 cm. box the fithma. Despute the fact that the round layment are cut there is danger of retrovenion of the tump feer it has been consent with the horse retroorem is just bet cent in at the bladder the

so-called retrovescal pentoneum

The function I result of this operation is very good Of sex tern patient it not lithieten had complet freedom from trouble to do not setual regul in I three cases the res list ere oul full is one pati it became ere fit and t. h. d. occasion I hot flashes. Certuinh the result in better than when only one one yet is not setual the eatire uterus is moved.

Knoors J more VI D

Flother M.W. Chronic Indocernicitis Neb 1:

Chrone endocrineitis is the most common principles on it among proceding disorders as in second t mote in t potential mensect all of the poli extractives. It wereas t he default by reflect is the corporal on homein in inferred with feture if frequency a solidis endocrineit sprinciple of the mote in the corporal of homein in inferred with the corporal of homein in inferred with the corporal of homein in inferred with the corporal of homein in the corporal of homein in the corporal of the co

The pathology is that of eros on considerell inhitration and mili in because bout the glands and connectin trisues. Until there may be suppleerosion exercision, cond loma p pullary erosion internation, miscory polypa. Yit legement ion cerual stenosi or archoma of the ceruit.

Depend g on the pathological course the inleasity of the ymptons will any from mild leucorthers to omplet factional in alidates. The bacteriological examination shows the genococcus or some other post-producing orgy, with

The treatment necessal test the removal of II fected tissue in the ersur. The union believes that is best ecomplained by the removal of the et the endormers and more by sturmolor technique or by the use of radium as ad ocated by C. ris.

II. VI. M. J. M. J.

Davis, L. Carcinoma of the Cervical Stemp Report of Fight Cares Rouse II & J j

After mention of the fact th t myom is adcarcisoms are often associ th m the terns and reference t the frequency of custer in the cervical stump the author reviews the 1 cases of cancer which in endmitted to h M suchwest General Hospital between Januars 0,7 and January

I eight of these ses the cancer developed in the cervicul stains after expranging hypercetons for fibroids. The interval lollowing the operation twenty four years in one a years in one to years in three nid less than

year in two. In the three cases in which the mirely was fire or more years the growth was probably new development but in the other fire as a probable a consistent condition not respond a monificient treated. In four cases the press, oversition as done elsewhere.

In all cases of fibroid in which hystretters a contemplated the cervit should be very careful investigated and the uterns curricted before generation. If there is any suspicion of mahemary bed by sterectionary should be done. The options of the cript is well appended. But I Court M. Dourt M.

Eden, T. W., and Goedwin, A. Tw. Devrai Decer of the Certis Treated by Rainen Eden Operation. Proc. Rev. Soc. Mai. Lond, in pro. Not. Cont. & Grant. 1

C : 1 The patient w as realizants symmetry which characters with a extravor minds provise not cere which stended for a cm don the patient all of the again. Signs of makinary fail the moted for three months. A sharp good was so the form a cavity in the cerecular parts and owner of suchna becomes a work in the control area and of suchna becomes a work of the control of the control

Macroscopically the peritorial strates of to uterus smooth, and the posterior vapual ral presented behang sorter. The endocretic raoccupied by a fungature gravallar growth spraking spward toward the body of the stems and down well toward the vagual surface. Macroscopic

the gual portion of the critic and the petron gualcul bowed a heahag granulatory series. On no malignant cells \in it the internal as the relief the endometrium showed defaut malignant charges. The owners presented scale abrotic charges.

(se a The patient was multiparts and a person who had large irregular family must discovered which practically fifted the proof of the corresponding of the person which provides the person to the person of the p

performed Macroscopic examination shewed the posterior will of the interns and the posterior will of the interns and the posterior will of the interns and the personal personal couple, and presented several hard kittish areas. The ovaries were taught and

Microscopically the otenne II and polypshowed polypsod command the toogs certain area showed columns well denocarciaous suite going hyaline degeneration, and the upper part if

the vagina presented an extensive round cell in attration

Properative radium treatment given before operation treat) simplifies the operation by removing most of the productating growth and, by causing degeneration of the cancer cells, lessens the danger of cancer implantation. A much if the profilerative cause as possible should be removed with abary spoon no order that the radium may be brought more directly in constitute in the every more directly in constitute in the every more directly and the constitute of the every more directly in constitute in the every more directly and the constitution of the every more directly and the every mor

Reef, P. J. nd Charlton, P. H. Sarcoma of th. Uterus, A. Surf. 9 3 Lenus, 476

The authors emphasize the importance of careful microscopic study of all suspectous area found in terr removed on the chuical diagnosis of multiple fibrouls. Of 190 uten thus examined they found eleven to be sarcomatous. Nine of these presented grossly the picture of definite multiple fi broads and in the majority the gross section revealed an rea of apparent surcomatons cha ge enclosed the the fibroul masses. It as not uncommon t multinodular aterus with but one nodule showing arcomatous transformation. This ould tend t strengthen the contention that SECTION . H W F a w may arise in fibroid

ADMERAL AND PERI-UTERINE CONDITIONS

Spencer II R. Ten Cases of Ovariotomy in Wennen Over 78 Years of Age. Bet. V. J. 9 3.

The ten cases reported occurred in a series of 6 5 cases of ovarus tumor operated upon. The go of the ten patient ranged from 70 t 8 ye is. The oldest woman ever subjected to an overolomy was

as years of gr.
All of the tumors in the ten cases reported ere
bringin. Fight ere multilocula cysts. All of the
orien recovered from the operation. Ether seems
t be sale introduction the texts of old persons
infiltration and spinal menthenia seem t be gen
and introduction. If W. Frex, M.D.

If W. Frex, M.D.

EXTERNAL GENTIALIA

Mondor II and Huer, P. Crysts of the Labla Minora Les kys es des pet es lèvres). Gyule et else 1 20

The thors eview the literature of cy is of the labas prisons discuss the different types of cyst from the an tornical and histological standpoints, and report—case with the microscop—findings

Schierou and endermal cost may be attributed in inchasion or orchware proces. If necessary in a bed fed mit is groups those in which the try is hard in non-chaired epithelma and those which the casty is lared with culated epithelma. The literature report intra-picht cases with the learning state of this type but in seven the pathologic report is indicated. In the remaining thirty one the Cruissers.

studied as to contents, haing epithelium, and outer coat. In t , there was no indig epithelium the stromal coat being in direct contact with the fluid contents of the tumor Most of the cysis contained

viscid, coloriess, slight yellow or brownish fined Cholesterin crystals were irreprently found. The fluid a suspide except in few shich had been infected secondarily. In some cases non-strated muscle was found. The outer cost merged at the the structure of the laba minora.

The thors believe that these cysts are derived iron the soldfun duet raisher than the mudlersan as held by certain other investigators but that that is, for no one he proved that they are so dented. They reject the hypothesis that they are may be derived from barboliums abstraints of from the mucross gluids which kollmann and Schauts has (sound in the 18s of the new born

5 or P 1361, 31 D

MISCELLANEOUS

Herzog, G. K. Gostorrhore in Women. Cal for State J. M. 9, 3, 221, 3

The cases of gonorrhera in women seen in both pri t ad linical practice are usually the disanced cases with mod ement of the glands of Bartboln, Stene's glands, the cervix, not the tubes T feet

cure the glands of Hartbolta must 1 ya be xxxxx, Skens a glands opened and cast rared with the thermocautery the trettira, jected with a trong sil er nit t solution, the cervs dilated, and

the uters applied I berally

Frequently the pib wan fails t daymose noncortext severase be does not find the possococcooctored severase be does not find the possococcoThe fault lies usually the him rather than suffe the
labor too, tech scan. I. Ill it is necessary in
milk the usethra sith considerable personner
milk the piasolo of Bartholin. The cervit should be
expected to from Schoener should
have been used to be declarated been
subsequently sith the sith of the considerable
and the sith of the sith of the sith of the sith of the
daymon of definite of tablished.

Lencorrhors and ur thral discharge are very often of generatoral origin, and one can safely say that a because of the gland of Bartholin is

alway gonorrheral

Pers use thrill been in the female following penetrican is a trouble-one condition, particularly when it is so close to the internal phineter that unuse my be mused in the put. These cases make treated with the put. These cases make treated with the put. These cases make the treated with the put. The state of the put. The state of the put. The state of the put. The put.

In conclusion, Hermy 1 ter that the dical treatment of generators val or gunts namely, the excession of the Bartholin glards and the direct application of the extery to the ur thra and cerrus, has you need gratify greatly

Lotta Grou, M D

Wetbel W. The Treatment of Peritoneal and Genital T berealods in the Fennie with the X Ray (the Behandling der Princocaland Gesi tal tuberculuse des Weibes mit Roesigenstraklen) Bien Hin B bleich 9 200 93

The attor states that in cases of inherenform perinonial tracted with the Via (the efficiency of high he (tributes i stimulation of connect etience profit ration) he obtains good results in 8 per creat and the mortality is 15 per cent. The best results in obtained in inherenform of the adness A inherenform nitre on the triber all of the agness about restell in high way uncertained. If finally

a permaent amonorhera to produced which is cry desirable in cases of severe mesorchages and jestified even in the bence of menorhages to the deleterious influence of men tru toos on the local condition. It cases of evaluate performin the ray ing should be done only fiter the series fluid but here promoved. Vogt E. The Healing of the Womals of Cynerological Operations Following Previous Reent gen Trestment (We leden go norkolombe Operations nion mach oraspergement Koratges bestrabung) Vol M. 9 v. 10

On the las is of 1 enty-eight Liparotomies had been perceived by no Igen transment logical attempted 1 ans er the following questions: () If operation made more difficult by previous receipts treatment: () Whi is the effect on the healt of the outsile in the abboundard will find when the picking (j) Do lat injuries from the roc 1 gen treatment shown in the region of the example.

He found that previous use of the roc term ray does not make proceedings along rates more didwall to a marked degree of does not exert any effect on the herlang of the cound. The third question lock as makile that we have the oper tion was too hort beauth trake as written.

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

\ gnes, II and Hermet, P Sedimentation of the Red Blood Corpuscies and Gestation (Ndmentation des globales ough et greation). Ere fress, despite of Caleb. o. t. Nuls.

he pair of delt of rom, 4
From their experiments the authors draw the fol

lowing conclusions
The reaction of F hireus is observed not only
in the course of gestation but also in an emiss caused
by repeated loss of blood, the development of
tumous, d in acut infections ith pus formation
It is not of whee in the cash, diagnosis of pregnancy

2 The datappearance of the reaction in the post partum nd postabortum period varies th the

lapsed time

The theory that the reaction is due to some substance in the red blood cells—as not confirmed

A The delition is refer of distribed as ter or physiological serum did not accelerate the reaction. Therefore the throry that the reaction is due to a decrease in the specific gratty of the plasma as not confirme.

5 The reaction appears t be due to a chemical modification of the plasma, particularly in the relation of the collouis, as increase in the fibringers and the scrum globulin in relation to the scrum-albemin 8 or Planc MD

Williams, P. F. Glycosuria Test for Pregnancy

Am J Ohn to Gyner 9 3, xxv 169

The proposed methods ere tested on the pregnant and aborting women in the renecological serv-

ite of Girvin

Ten women ere tested by the original method
proposed by F ank and Nothman. This series included an aborting often and four women pergiant
earlier than four months. The blood sugar did not
reach. 6 per cert in any case All showed glyco
surts after from thirty to forty fire minutes. 1 a
fex cases the percentage of signs in the one. In

higher than the values given by Frink and Nothman Eight once ner then tested by the modification proposed by Rood bachel. Six of these who cer aborting, dt in early pregnancy ere given glocose and epimephina. I only one case was posture response obtained and in not one did the blood night rate bower per cent at the end of testy rive min ten after the diministration of the

Fourteen women one tested by the phlorazin method Eight were normally pregnant, four were aborting, and t had t bel pregnances. In but two cases, both those of pregnant women was a positive response obtained. The blood sugar abowed no rus during the test.

These discordant findings ere rather puzzling Controls were therefore carried out on one pregnant women. A positive response was obtained in only one 33 year old soman sho had had no operation for prol pac and showed slight git course following the administration of too gm of glorose. In no other case was a git-course obtained with any of the methods

Wright, H. W. Psychoses of Pregnancy and the Puerperal State. Cal ferms State J. V. 9 3 xx,

The insant) of pregnancy and the puerpenum cannot be considered a psychatine entity. While any type of psychosus may occur during pregnancy or the puerperium, the vart mijority of cases fall int the groups of manc-depersion manify demeatis precox, and tonic or infective yndromes. The first two occur frequently as thout feer or

other demonstrable evidence of physical substrates. It is diagnosis it is desirable 1 know the personality of the patient for often this is of aid in the prognosis. I demontia percox the proposis is demontaped to proposition of the porty I the defoncist type the prognosis is excellent. In the purely mains depress. Type of case recovery is usually complete after about five months.

H N From M D

Hannah, C. R. The Value of Abdominal Measurements in Recognizing the Size and Maturity of the Fetus. Texas Size J. V. 9.3, xva., 143

of the Fermi 1con State J M 9 3, xvm, 543

The factors contributing t the oversised fetus
should be eliminated whenever possible

The large fetus has but lattle if my, denoting over the fetus of 6 or ylls. The cells of the large fat laby are were longered and usually its weight look from 1 to 4 fifth whale medium made laby a hely seighting less than 8 lbs. loses probably 8 to or The medium usual balby has greater restance and does not so often have the fever of inamition or tart toop in the first fee day, of non-atternation.

The length of the I tan before both may be determined by Abilded rule. One point of the pelvimeter is placed in the gential fold near the clitters, the soft trave being probed op until the point of the pelvimeter rests near the upper point of the symphotomic body the pelviment of the symphotomic body the pelviment of the symthetic body and the pelviment of the taken, cm are deducted for the theories of the taken, and the remander is multiplied by a

T obtain the occupito-frontal diameter Perret has taught us 1 place one up of the pel imeter over the counts and take the over the frontal and take the reading without any deduction for tissue. The subtraction of from 12 to 15 cm from the reading given the baparetial diameter. If the occipito frontal

la from sot se em substruct a gem pil se ag, de dut som Hitt deluct sig em U siem or

more, delact a sign

Spirge fourg figures show th t uteres filled with the a crage are fitte all measure as 5 cm from the upper lorder of the ampha is to the fundar M Donald ha derronal ated that a luedo s cm bigh from the opper border of the vernhous will probably ? 411 rightry ? Ibs to lor t weter ton 15 be dis room and for eren. ach or timeter below that amount he ledget pro-

It is recognized fact that towards I list progas in can be ure ted second the oals be received tion, and that proved uptor ampions may main less themselves in site of Il diligence of act reupersuson lithey d not viel ito acts treatment the of tetrals may inform hi will uh the new of the rates described. If the period of materity of the feture. This same princip can applica de til e ica of court acted pelver I art loss on and consultational modern procepte board apon reasondware at lde fact (II b m H b

Gilbert T. C. Intentitud Pressurer Teau State *J M* 93 10 44

executive full tental to a The albor report which presented the launcal I a lamental symbonic of the or had ectors, ariety of pregrusery and in Hitten erray deferential reduct Javacall charserrou althousterstiti ltype that in mulexam

tion it funda of the terms found in the de of the pregnant horn, the being day to the haracteristic tendrary of l ter this light tion t develop servard thus it forming the stress est cone the to pourt spread and out rd.

In ordinary t ball pregnancies are mor pt t fird that more posterior and a lid made the cal desac of Donelas the unward and terror in this er l'irranant in the rui me tary been or argular m y be confessed the interstellal preg name) but I the first named condition the) mp toms to mor pit conform t those of normal Peternane

the dat tion of pestation to of some differential lue and should also ye be taken I to consideration the erage time of ruptur us the issueral tubul type of pregnancy is the fourth week while it the interst that type it is the eighth week. In the latter it me be even the se emb month. Thus the obrule the intentitial type gives more os that time for study and observ tion

C. H. D. Yes, M. D.

Subcutaneous lands ration of Arrester O L . Lln the II ma Oraca J to M A

The case reported appears t be sauque but the fact meeting had tiention is that the huma bornon is capable of developing to the size of be egg n the environment furnished by the seperficial facus of the abdomes

It ben first seen by Least of Glovermille, 5-1 the patient, a woman aged 25 years who had been mut rend for four y are and had had one abortion and so children presented must the sure of others in the lower abdorumal region t the upper end of the scaof a previous oper tion. A previousal diagnosis of ound berole was made. T. weeks later the ow. If ing had doubled in use and on account of its raped granth an exporatory examination was decided upon. This was performed by Lena four week after the natural first sime to him by that time the en-

latgement had reached the size of a heat egg Oper two disclosed, Just breeth the skin, enbrilled in the superficial facia, relativel this walked ord purnish transports each which as remoral proved to be fetact chorante are and se

ter g opened was found to contain a well framed ember

The butheric are was certainly growing up t the time of the oper tion, and its histologic coedition w computible us h (all further growth, although the prominence of the so called Hofbaner cells was the men of in approved ag arrest of desclorement It thus follows that under these chromotopers the provided the sack relation options bearer than that of the embry. The purform thibeauthor labot two expenses with abunion material in graeral the cheeses is proportional ly further des lsped than the embry railment. It is to be remem berred that the fixed the terrior mentioned is not so profusely scalarated the appears surround a the tale ad aterus, and this might he been a facthe arrest of dev luperent. It can only speculat on what outd has happened if the man half not been removed. It is not probable that a would he green rinch larger Rr sowag on the harle of tubal sperimens (arther hemorrhages - Ithough not errants once, pught has occurred and the entire structure solehi bave been shouly brushed the the other hand, there is the remot purability that the all mucht has given origin to malignant horse or behavior. The findings in this case reery enerotive to the experimental embevolves t CHDWAID

Lameur, P., and Vermetin, H. The Serum Diag-sours of hyphilis in the Pregnant or Particlesis Warmer (Le alro-disposité de la sphille chez la femple encelut ou récemment accouchée). Grade et

AND 1012 THE 30

as not suspected

Despit the controversy t luch it has even nee the server duguests of syphilis has definited proved its value. Struck by the remarkable similarty of findings of the clinical and faborators examina tion in thousands of cases of syphills high ha been either suspected or recognised with certainty the athors studied the Bordet Hasserman resc tion is pregnant and part neut ownen I a large umber of cases in the obstetrical clinic the screen describes has confirmed a doubtful describes, and in few cases has revealed the condition hen st

1. Def siccase of sysbills: In twenty-solic cases in which sysbills was recognized the results to the test over the same as those observed in other postive case. The entry three of these cases were those young somen who had had no anti sysbills treated or young somen who had had no anti sysbills treated must. Six cases in which the test was negative were cases of old lessons or recent lessons which had rapidly represed under treatment.

2 Placetal hyperrephy Under this term are classed those cases in which the only again indicating syphilis is hypertrophy of the placents. Only one case showed a positive reaction. A negative reaction does not exclude the possibility of syphilis this can be done only by repeated careful examinations of

the infant during the first months

In 33 per cent of the thore entire series of cases with positive reaction the feto-placental relations was 4 year over and monly 3 per cent was it most re-4. These fadings is therefore very similar to those of Levy Sokal, with whom the those agree that before it is concluded on the basis of negative serium reaction that hypertrophy of the placents in soci symbilities ongo it is necessary 1 prove the absence of symbilities maps it is necessary 1 prove the absence of symbilities maps.

3. Mecreted fetus ceregated styphilat In these cases the mother does not dont any former specific infection and does not exhibit any indications of recent old learn The fetus as in ractifacts the materiation is of long tanding the stomach is voluminous (seventeen cases) and the horn occupies the greater part of the bedominal

cavity. In the cases in which it was possible to make direct examination the treposome was 1 % 3 found in the liver. The placents is distinctly pathological the feto placental relation is missed, about the changes due to the maceriation, the washed and wasage this appearance of the placents and its finable consistency are characteristic of

syphilis
Two negative reactions confirmed the laboratory findings. The death of the ovum may be attributed

to endometritis. A case deservang particular mention was that of oman of a ywars who had had t recreasive normal greations. One of the chaldren had secrembed to coordisons. The third gestation was complicated by hydraminos, and near term maceriated (etts was capilled. The liver of the fetus aboved on hypertrophy or macroscopic alteration. Despits the negative reaction and the absence of chinical ages, syphilas cannot be positively excluded.

A Doubt I reaccurre refeats In mach case the serum diagnoses not great value. Undoubtedly the cimcul examination sions as occasionally inflicent to discover syphilis, and in many doubtful cases a positive reaction will confirm suggestive climical signal the authors seemed the finding of the physical cr animations were confirmed by positive reaction in eleven cause. In size of twelve cases in which the reaction was negative a premature innerrated fetus as expected in these cases as change in the body

finkle incident to gestation may have been respontable for the negative reaction

S. Hydramnos and large erum. Of nine cases of hydramnos, positive reaction occurred in only one. The very heavy placenta above of the characteristic changes of syphilis. In one case the placenta was very large despite negative reaction and it seemed probable that syphilis was the cause.

6 Abertions: In all of the live cases of abortion the laboratory findings agreed with the clinical findings, being negative on case of accadental abortion due cheefy to endometriats, and possible in cases in shigh listory of syphilis was given and in young women in whom the bortion was the first sign of courted syphilis.

7 Early fetal death Six cases of premature labor followed by early death of the fetus showed positive reaction indicating the presence of syphils which might easily have passed unrecognized

8 Permissions engines. In the two cases of per nicious animus observed the serum reaction was negative.

of trophes leading to the frequently its derived from the grandparents and for this reason t should not cause surprise if the mother shows negative reaction

In the authors entire series of 148 cases there ere sixty three positive reactions and eighty five negative. All of the positive reactions were in

accord with the clinical findings

Those who has experimented on the sensibility of sera in prepared animals have found that a nega time reaction does not exclude the disease with certainty. In explaination of this we know that antibodies appear as the indicators of a change in the body fluids caused by indicators of a change in the body fluids caused by indicators. Taking no as a standard of value for untrested secondary symbilis, the intensity of modification is a of intertury as philas and o- 5 in old treated symbils. These values differ in different persons and in the same person in the course of time and under the influences of specific treatment.

In many cases the laboratory test as insufficient to differentiate between normal and abnormal sera because, when the changes in the body fluids are slight our methods are not sufficiently delicate to reveal them It seems probable that a chrome infection as similar in its action to a drug. At first the body reacts vigorously but if the drug be continuously repeated the reaction ceases entirely or diminishes markedly. In the case of infection the evolutionary changes possible to the micro organism and the possibility of change in its antigen forming properties occurring within the host must be considered In fact, negative reactions may be due to absence or deminution of serum modifications occurring when the body becomes accustomed to the bacterium or to biological variations in the latter Changes in the scrum are complex, some may mask and some may neutralize (inhibitory substance of Calmette)

ROSCOR JENSON, M.D.

Moore J Est htudies on the Influence of Fred nancy | Syphilis The Course of Syphilitic Infection in Freshant Women. Rali Jaka Il star lles But og un b

The valulity of Colles la and of the patern I trummission of syph has a still a settled. The purpose of this article. To show from correl tion of the choical and experiment levidence in the biera ture that in all probabilit meither of these hypoth everbraled The chalcal data upphed be study of 115 peren at women the positive bland the sermana reaction and t cots t o non programs moth ers of a philitic children semport the belief

lort) four of these once (a per c t) h d definite lessons of e rl or lit phillis t the time of ther admir mont the houpt 1 1 repercent of the remainder as phillip a proved or troogs organical by the h tory physic I examination, response to treatment, or a becoment course or combination of three I and at speciest of the annuare therefore he il exidences of phile (scent a nouth blood II seem an reaction lacking

This study demonstrated also that the factor of programs ma save striking deviation from the soul course of vibilitie infection. If impregnation nd infection previouslely colocide or if infection occurs d may the course of perenancy the owns. may des lon the usual cally maintest tauss of 17ths In but these will be much milder than I she had here infected in learnifeath of press sec. Approxim tely one half of the omen so selected tru tel toward infection in this in aper

Labebth larger proportion infected ath philit about the time of impregnation field tides lop s of the musicarity leason of philis Lock these commentances it fair t a nine that programs is the factor which suppresent the lesson of the dise of

In a fe women (three of the 200 tudied) the rescourse t infection acquired at the bigin mg of or during pregnancy was ma kedly hered. The munit me relations bet sen primary and second ry yphilus ere much prolonged On the other k nd the interval between cutly philis ad terturism may be much shortened and gra lesion of ter tiary type may types art in the course of the d+ reve

The protection grant the art levous of philis florded by perguancy ma person over keep period of years and posmis for blet me ! few m stances a spontaneous cure of 37th les seem to ha been the ultim t result. I the omen of the scries he developed lat syphilis the severa aid port plarly the cardio scul in tem ere espec II) prose to m of ement berein tert in knoon of the skin d bones ad neuros plubs either limeral or # mptomatic n rate

I thurty three of the 200 patients the blood Wassermann reaction gr nominous result I ner cent of the pregna t once ath secondary symbolis the rea tion might re I the women

with litent yphilis it selllated markedly thout treatment and number of cases negati at posites resurtion datase presentacy changed spot insecondry t the revenue liter deli ery. The factors prosably responsible for the combinion re-discussed borts

The nat in of the mechanism by which previous causes these afternations the course of mobiles: I feet lon to ank now CII D my VI

Arymenonics, J. Oracian Crats and Presuracy Results in Thirty live Cases Operated proc During Pregnancy (kyrin de I mare et evia then thealt tier 35 mehrte pendant la grat tem Gran Jebu o 1 401

The oal though procedure to follow in the new ence of a ov hin in a diagnosed during pergninery a interest at a laterieren Abortion or curred to 8 4 per cent of the cases makes of her in one fastance it as in the errors before the language on and in pother the mother had ad ascelland monan takes also

The athor experience le d him t the con laws that the fetus my be moursed with less difficult. Its the fourth month of gestation. Ad because, more or less truble torsion of the reduck and incarcer too of the tumor mass, ore encountered at operation \ ope ti rout through the aring his been pertel because of the di heult of of timing sufficient exposure and the diager of introductor feet in Lor LD cMD

Dietrich, H. A. Hess Dari & Fregnancy (lies schirch der Schraperschill / Crest o 1 soil

Hers cannot in program: is rare, in the ateres is norm I position but seem buch pregnanin resolution remove common The or tention much become intin the tan the latter the presents should be terrupted in only 1 det 1 prime boths the sleas ill then be overroome in rejected I the ather openion oper to treat ment should be at on for the sleet, ad erest care should be t ken to the handling of the terms in order not 1 intermint the pregnance

Detroch court • ъь portion of intestine materialists in merital because of an to pination the patient recovered aid health hald been tterm theh four serolin gren tion of the testing for our pregnance h reported up t the prise time I the ther abinduse) the same talenter time or there Thus as timber it the pregn as I be do more be difficult the carb motomer on be readth ascribed to the pregnue

LANCER IS U

Resembled II II and Schneiders, F. F. Improved Prenaltetracklorph hairin Test for I leer Func tion in Fregrancy and its T sensite / im 3 h

The phenoitetrachlorphili kin test has been sed t measure h or function both in normal and in toxic tace of bridge per

Normal cases of pregnancy alon a curre connocing with last of normal non pregnant cases and suggestion, that the so called here of pregnancy, with a proposed programs of the presence of function Toxermas of pregnancy with the proposed programs of the pro

The results obtained in several cases suggest that this test is now accurat mide of entings trust that the serial is now accurate mide of the serial to the test of the probable by means of it to anticipat the clarical perture in forming an opinion as t the degree of early present it given time. It seems to remain perture and proposed in the proposed of the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the present limit in the present limit is the present limit in the pres

The authors believ that this test gress quit it tast; index I functional capacity of the liver and that in the tousemas of pregnance; it will aid greatly as an index of treatment and esset in determining the time at which their potent abortion or induction of labor should be performed when these measures become necessary. C. H. D. vas., M.D.

Iufkart R. Phenoberbital Sodium (Luminal Sedium) Treatment for Hyperemeas Gravida rum Au J Ohn & Gravi 9 3 xxv 4

Thenobarbital sodium gr ta administered hypoderinacilly. The pute or powdered form only is used as the milk regar in the tablet trinartes will often cause becomes I the majority of cases ta diministration every from hours will "diffee both it may be given at shorter interirsh for three or four doses if rebel is not prompt. If the case is seen easily regular feedings are continued—are table. Given care must be taken in the green't management must be taken in the green't management of the total strate and output of finish, duly blood-pre-wire determinations and public temperature and externion reserved.

If the nation is starved and there has been considerable loss of sight and utergith, or of infants seed, invalid form is, in given every hour and carbounted ter or tap we ten preferred, midway let cen freeding. The boxels are exacusted by culturation and are much to now daily a thin the help of memata of necessars. Fluids Fracher's or subnesolution are given by rectum as needed to upply

solution are given by rectum as nected (upply) for and flab reers. The patient is not allowed to receive virtum and her room is kept durkened there are sais for food freeposet feedings in small quant teer regiven. The amount and kine of food these regiven the manner in light is retained the creation of the manner in light in potential of phenodurbatal modum under the potential of phenodurbatal modum under the food and safer are taken and retained the mental and physical condition imprises rapidly. If the case in obstinat it may be precessary it contained treatment until the end of the third month of pregnancy. The sensation caused by phenoharbital sodium is described as a fluid feeding of the entire body

Occasionally the patient skeps during the day and the salast traph? A hypodermic of 3g of caffern bedmen beneate administered with the phenomental and the salast state of the phenomental solution will help to overcome this and will not interfere with the questing effect on the nature of the phenomental solution. A cup of office serves the purpose somewhat less satisfactorily. The only ill effect of phenomental solution observed has becurtaers. This is relaxed by sponge baths of per cent lying adultion.

Runnels, S. C. Ecismpels J for Int Homes;

The uther reports nineteen cases of eclampina without a death which were treated by modulea tion of the Tweedy Stroganov and cresarean methods during the last three years

In the Tweedy treatment the entire bowel is empired by a thorough cleaning. Tweedy begins by washing both the stomach and bowel by repeated washings until the water returns clear. After this procedure some water is left in both the stomach and the rectum and or of cast oil and a drop of croton oil are left in the stomach. Three bours later this washings to the stomach that washing the stomach is the stomach that washing the stomach is the stomach that washing the stomach that washing the stomach that the stomach three bours as long as the celampsia on tinues or as long as the celampsia on tinues or as long as foreign matter is obtained.

The intestine is then kept empty except for the replacement of finds, which are forced per rectum h food at all is given, and when the clampais cases, the resumption of feedings begins very or a fully as the first food often re-establishes the consistent within its first food allowed and in given in small and open mental does. Absolut a present the small per consistent of the consistency of

The convulsions are co trolled by the oldine method of Strognov who pres no thought to the possible etaology of the ectampna but as the result of empericam discovered that if the convulsions resubtured the tonzemia will often pass. Morphine is the manastay in this subjugation and a given herose doses. A half grain as an initial dose is nightcreasure allhough it is considered better to give

t quarter grain doses at half bour intervals. A quarter grain dose may be repeated as often as needed t quiet the patient until as much as gr his been given in t enty-four bours.

A cdamptic patent is ery minuse t the temeffect of morphise and the drug may be praised until the respirations re below ten per minut. If the morphism must be supplemented chainst per rectain or an anesthetic may be employed. Calcoral has long been used in colampian, but it is the opinion of the utbor that it is best contricted because of its initiating effect on the kidney. In the choice of an anesthetic, chroriform must be eliminated in physianuscribitics, chroriform must be eliminated in physobjected one boss worldbe in oil will petrogeneration possibility in tabel set at the feelings

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Portes, I. The Pathogenesi and Transment of Apoplery of the Placent (I longite at test year de longitus (tog) reass). Conf. of al. 1 t. 1.

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A hi tory of ext real transmitten we given in many three cases, and in two of these there were

acts of totach. Therefore external to we for 1 fed a common cases observed the an 11 of feed relate we feed to set pre- the area fat trans, but brent question there is port. If when we the terms cause in loss of the common feed in the common feed to the common feed in the common

re the error of self call or rationscalling it per net of the sections to fact the could show it did not be to the set in fact, the could show it did not be to the best in fact, and the section of the place is not person.

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tween the four real real sources trailed the family states on an indirect trailed to the family states of the family sources and the family states of the family sources that the family states of the family sources for the family

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past hereinster of box and h it rectors when the term shows are known at least II believe that here hereins explained here proposed here.

LABOR AND ITS COMPLICATIONS

The method described one of a rd descripe and therefore regulars no tests. The patient is placed

under the anisathetic by 1/4 gr of morphine and / oo gr of scopolamine by drobromate and two subsequent does of / oo gr of scopolamine t one half bour intervals. She is kept under the effect of the anisathetic by the administration of 1/ oo gr of scopolamine given every t hours until delivery.

In the management during delivery a Bierhalder lep holder is med and the patient hands are cured to they cannot reach below the wanting as additional done of scoplamm may be given at delivery so that the interval at this time will not exceed one to one and one-half hours. For forcept dui try and minor repairs no further anesthesia is necessary. For extens, repairs or for version, deep mechanics for extens. repairs of for version, deep

surgical ancetheus is induced

The patient is not allowed to receive visitors. She is given plenty if we ter but no food as food is not retained. If she becomes excited, the scopolamine is discontinued.

In a 3 deliverses there were ferty eight still borths from rance causes but none due to the anstatic of three maternal deaths, one was dee the champas, one to espite personnist, and one to in floratal pocusions of foot deliverses, 727 were those of multipare and 827 those of primipare Twenty free multipares and 127 primipare were delivered in forcesp. Postparium kemorrhage control in garteen multipare and fourteen primipare, but in every case was easily controlled.

ROY E CHRISTIE, M D

Gordon, C A The Management of the Third Stage of Labor 4 m J Ohn 5 Greet 9 3 xxv br

The uthor has tucked the third stage of labor in 1 600 cases As soon as the child is born. telltale tape tie is loosely placed upon the cord, at the vulva The fetal end of the cord is not clamped, but is closely used when pulsation stone. The abdominal coverings are then removed and the patient is carefully examined for the signs of placental separation After physiological period of inertia, the uterus rues boye the umbilicus. It is not relaxed or soft, but firm in the upper segment. The lower aterine segment may be distended over the pubes although this sign is not constant. A detached placenta half way through the upper segment into the lower or protracing through the lower uterine segment into the vagina may not distend the uterus Descent or advance of the cord with its tape tie

from o to 5 cm a constant
When there is again are noted the patient is
mitmeted to bear down. If there is disastant of the
create muches, these muscles are held firmly tocreate muches, there muscles are held firmly tocreate much much and the second of the
instructed to bear down. If this is not all the
instructed to bear down. If this is not all
patents in expressed by pleaning one hand the
londs of the others and posting the interes straight
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down the wagnial arm I full these methods fail
blittles is cathetimed if necessary and the Credthe control of the control of the control of the
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The membranes are treated expectantly w thout torsion. Traction may be used only after partial descent of the membranes.

If the placents is still retained, or if this not yetseparated, the cord is cut just within the vulva, the tell tale the being left in its place. Pittitin is not given. The patient may then expel the placents benefil or it may be expressed subsequently by the Credé method. Nothing further is done unleahemorrhage occurs, when the Credé method is used under anesthesia or that falling, the placents is removed mansally.

It m obviously n more possible to conduct the

third stage of labor by rule than the first stage.

In the series of 1 600 cases paces of membrane acre retained in four without any disturbance other.

were retained in four without any disturbance other than the prin incidental to their expulsion in clot. There were nine cases of this pregnancy with one placents and five with two placents. In none of these was there placental retention or postpartum hiemorrhage.

The author gives his conclusions as follows:

1 The recognition of separation is of great im-

portance

The frequent occurrence of speedy separation is responsible for the success of the Credé method 3 Indiscriminata use of the Credé method will cause the very end results which that operation is designed to avoid

4 Students should be taught that the Credé method as for the pathologic third stage

5. Retention often occurs in the lower birth canal because of the recumbent posture of the patient and her inability to use herobominal muscles which are then chiefly concerned in expulsion. The primi

ti e sitting posture might be used in cases of delayed expulsion of the placenta 6. The placenta may be retained safely for many

hours
7 The dherent placents is rare. It cames no

bleeding until partial separation occurs

8 The completely separated placenta causes n

bleeding

On The partially separated placents always causes bleeding. This is the placents which calls for manual.

Manual removal

Manual removal has high mortality but
datinct indication—hemorrhage Delay is dan-

gerous after hemorrhage occurs

Detailed studes of the management of the third
stage of labor are numerous in the literature Gordon
found nothing so practical or precise as Polak's
study in to s

E L CORNIT, MD

Galfami, P. Transporttoneal Cassarsan Section of the Lewer Uterms Segment in Fifty Casse & A propos de so cas d'opinion césamons tranpéricosiste sur le segment misceur). Est franç de grace a d'adu q 9 3 xvm, 13

The author does not describe his technique in this article as he has done so previously but discusses his cases with regard to the value of the operation, the

strength of the uteriae scar and the lemistrons of the technique

In three cases in which infection we mely present and in t c se in which it was suspected there to me death. In eleven cases in which a subsequent caracter section as performed the seur of the previous operation found t be wild In one case to high the aterna was removed in the second a sarean section the scar of the first overation a a found to be netletth healed, the mucos bring smooth throughout and the only trace of the aca on the outer surface being the all thread used a suturnos Microscopie ex mination who shound perfect bealing

The uthor advocates the are of his techanine a If and except those showing sizes of except di tention of the lower segment particularly those in which a difficult extraction of the head is antickprited set of placest person old cases fa-which there to many adhesion due to presion

CHARTER PETERS

M wery W 1 Cornerson Section under Local And whole I'm Hool

S DE PRINC M.E.

The author reports three geare a sections per formed under feed anarothed. The method has the following ad atages

It I free from disper to the mother or the

There is no postoperat in use or omiting, nd a the abdominal muscles remain most the mother is dicidedly more amfortable.

back is prevented

tendous fitty legeneration, post per in per most and p railwise these to not provided or even personal. Therefore the patient resistance is preserved and the effects of 1 fection which may he been introduced during or preceding the operation to give til educed

I There is no danger of producing cerebral bannerhare or embol

6 In complicated cases with englangement) ith albumin at not but blood present produce hemorrhage orga is bean thresse broase infection nd exophthalms gotter as bich the patient rese t nee is taked to is an in and nikelation and theirs in decided) hazardou of not beolutely rootes advested for I perthera may be used th tiets the patent eturning form the operating room without in perceptible hings in her graces) condition

The di dy tages at few There oray be alight p us tale the aterus being debiered but not se much during the tire operation as as occasioned by one good I for pain. The time required is time longer but the p treat condition remains the same throughout the operat up not time is not factor the enture operation wildom requires more then

t sty h or thirty manufes Perhaps the most objectionable & store is the dread on the part of the prilient or her reints es of operation performed (II D TH. M D stbout surrous

PURPERIUM AND ITS COMPLICATIONS

Swirstki A Concerning Vilk Cysts Coloctocele Let k much der Michersten Calificete

In the case of 13cm-old nomes a client the lite of a w lout des loped in the right breast fter lectation four ad one h it are president ad became larger during each subsequent lacts tion, hile the secretion of milk diminarched and h nall crased hogether When the patient as seen he the thor the right brea t was an large as the head of newhorn child, but board no see and no retraction of the nipple Indistinct fluct them as noted I pioratory puncture sucked thick milk I cret was then removed

On pathological and anatomical examination it found that the Doftke crata composed of connecting there showing by aline degeneration and a occasional rest of gland tesue in addition there a small abroadenoms to the east all

The thor secures that the same factor both led t the form two of the fibro adexons produced the cast by crasing degeneration of the alla of the duct. It the same time the wirface of the . If of the durit as percased the incre sed secretion of milk bring due to this name had the secretion வியி⊾் a எங்கள் பிர்கம் ì

Roberts, C.S.E. Scut Cumperal Literation of the w 7

Lieran # Two cases at act perpaner I as ersion of the mercurate reported the both unthat of lipum ransold libertest presen had tren nated in 1 m 4 m se The mus he Ith and had strong alvionin I maybe. I he second labor he first and second at ges in norm 1 the latter but d hou I cat to min ſ the uterus grope! det rmine hi he the placents had sep d the fun! In n the ell contracted. The p.t. i. bis him and the placents present the 1 theu grow been orthogo like uters he 1 tom he see grasp set the mergang pl t dle ъη the completel error time b rds of the palent stuff form! I but I have now ara the sase of ft like and \ b \ \ max \
foota met t \ b \ nd tbs \ ns su manifed its bot stende el bu the en la tit become orse pile 1 m I then t portbund the fitt public public When the place t pack it was he was lettle bleed ag not the atu d Transference v the heeb mit blee t was tollowed by gridual topper mix t fost or da later goal mi son sho lithe tire

t be shight! bulk but others a norm! -b pa The second re the co This patient hid had previous for problem in followed by see re postpirtiem b morrhage. You got poo the te th day and seemed ell til the

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susteenth d y hen d ring defacation she felt her Lumination showed doughing omb droo man, the term, in the v gina Manual replace bich as difficult nd consumed firty mi utes, was followed b uneventi I recovery

UK I L MD

Bumm, E. Serotherapy and Chemotherapy in Puerperal I fection (Leber Sero and Chemo therapse bes der puerperalen Wundurlektion) Und g g mt

I the field of ound i fections proof of the ef ficacy of therapeutic procedures is particularly dif ficult to obtam Comparisons bet een an mals and ma are of only him ted the because for xample man is extraordinarily susceptible t streptococci, while in animals these micro-organisms nest it cruse ddition, the course of wound umdar duesu. I rable. If the turn infection in man is extremel ing point for the better counciles th the therapy f be conclusions re (asil possible. The difficult) of judging is particularly great in puerperal fever hich runs its course in the depths of the body B mm found, for example thit ases of ascend ing gonoerhora or retained lochia re often tre ted with streptococcus scrum. There re enormous day ferences bet een local infection d progressing phlegmon

The first step is t determine the tipe of organises which is crusting the fection. The more unicrous the cocci and chains the lochia the more probable butterial in son of the hung time. Repeated aerobic nd anaerobic blood cultures all indicate the pread and prognous of the infection. Uffortunat h. knowledge of the irralence of the infec

tion in certain asea is still ery deficient and charcal expenence show th time ound infections this is of the gre test importance. The best method of determining the irulence is that of Ruge by which the growth of the treptococt the blood of the national is observed that the microscope

The nature and virulence of the bacterium ha inc. determined the next step is n ttempt to render the organisms in the wound harmless by means of local tuerus. For pproximately twenty ears Bumm has bee — re of the impossibility of local disinfection of the uterine ca ity. He repeated the experiment agri with rivanol d with ether but in few bours organisms ere gain demonstrable in the secretions. If staining solutions are used it can be seen on section of the uterus that even after thorough irrigation many crypts and folds of the mucous do not come into contact with the fluid. If a portion I injected mucous membrane is taken from a freshly extirpated septic uterus and placed for twenty minutes in disinfectant bacteria can still be grown from it Moreover the irrigation of septic uterus is not harmless procedure as ery often the first chill follo s such treatment.

\nother therapeutle method consists in the subcutaneous or intravenous injection of immune bodies or bactericidal chemical preparations. Serotherapy and chemotherapy have become discredited because too much has been expected of them and their aid is called in too late. It is essential that they be employed early while the infective process as still curcumscribed Scrotheraps and chemotheraps work best as prophylactic measures. The practice at Bumm clinic is as follows () an intramuscular injection of so c cm of antistreptococcus serum and () with the onset of chills, an intravenous in section of 50 t 100 c cm of a 1,000 sol tion of n anol Above all, the natural defense of the body is asded by the princation of heat and the generous diministration of Icohol

In 85 per cent of the cases it was possible t localize the puerperal streptococcic infection. U der stro hemotheram; the total mortality was only 6 o per cent

The significance of bacteria in the blood in oner peral infection is variable as the organisms are often forced int the blood stream by mechanical proced res applied t the uterine mucosi, and most of them re destroyed in the subsequent chills. Much more serious are the spontaneous eruptions of bac terns into the blood stream but even these cases may be cured by injections of methylene blue. The therapeutic effect is adicated by the critical fall in the temperature the disappearance of the organisms from the blood, and the loss of bemolytic power of the streptococci. In all cases which have progressed i metastatic infections, aerotherapy and chemotherapy are useless Probably the streptococci are present in the purulent masses and tissues of the circulation and are therefore protected from the raffuence of any remedy The situation is similar in septic phiegmon of the pelvic tumoes

All in all, it may be said that the curative effect of acrotherapy and chemotherapy is confined to the unitial stages of the infection, but that here it is distinctly evident. The first days of the disease are decruve

SCHLINDET (Z)

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URFTER

Specials, F. A Contribution to the Study of Hypernephroma (Contributo allo studio del spermeirocaa) Policie Rome, 923, xxx, sex prat 207 The withor's case was that of a man aged 47

years. A diagnoss of hypernephroma was made. At operation the right kidney was found much deformed by tumor involving its entire upper portion and the amprarenal capsule Following removal of the Limey and tumor the patient recovered.

Histologic examination of the tumor showed that the reticular these, which was abundant, was constituted of more or less fine fibers surrounding and

even penetrating the tubules

The anatome pathologic and microscopic exami nations confirmed the clusical diagnosis and led to the conclusion that the tumor originated from aber rant rests of the suprarend capsule tachded in the kidney This view was based on the subcapsular nituation of the tumor the diverse cellular type of the renal epithelium and the fat content of the cellular elements. The histologic specimens ere prepared by the Achucarro method as modified by Del Rio Hortega R A Barna

Rosal, F. G. Remarks on 286 Cases of Nephroptonia (Observaciones en soé cuos de nephropiosa) Res de mai y corat de la Mabane, o 3, 22018, L.

The athor has observed soo cases of nephroptosis in Cuba. Only one of the subjects was negro 74 were females and thirty-two were males. The area of the females ranged from to 60 years, and those of the males from 13 to 55 years. In many cases the condition was familial and bereditary

In all the cases examined by the author pressure upon the kidney is becaused palpation was painful, but Rom is enable to after Laguer statement that the mobile kidney is painful when pressure is made upon t to reduce t mto the lumber cavity Thus, he believes, is an excellent thegocatic men dulferentisting between tumors and non-complicated nephroptoms. It is easy t replace the mobile kidney while mobilization of tumor is difficult

R' A BARRY

Nemenoff M. J. Reentgenological Methods for the Recognition of Press of the Kidney-Postmoperitoneum (Routgeschenkende Mrthoden sur Erkennung der Nurrespiese Pacentoparticonents) Westrib Resigned Redied 922, L. 177

Changes in the position and form of the kidneys are usually not shown clearly in the ordinary recutgenogram Better results are obtained with pyriography with the use of colleged By this method it is possible t determine from the position and form of the ureters whether protec kidney (long, wind ing ureter) or a congenital dystopic kidney (short ureter with straight course) as present.

The best results are undoubtedly obtained ath poeumopentoneum as this procedure allows the ac curate differentiation of all the organs from their surroundings, including the Udney. The technique employed by the utbor is as follow

dull perdle fitted with sharp stylet and double-current stopcock as inserted through the skip of the belommal all t the left of the medline and fingerbreadths below the umbehous. The stylet

at then removed and the remaining theses are pene trated with the needle alone. The stoocock is first connected with yringe containing physio-logical salt solution and t the moment the needle enters the abdomizal cauty the find from the symmet is injected. If no obstruction is encountered. the stopcock is turned and connected with two bot ties, one of which contains it and the other solution of corross, subhinate by elevation of the second bottle, the sir from the first bottle is forced int the belominal cavity the amount bring re-dicated by the quantity of find entering the first bottle Except for shight emphysema of the skin, the other has never seen any complications asso custed with this technique. He therefore record mends the method as enturely harmless

VOY HOLET (Z)

loung, H. M. Suggestion for Standard Tech nique in the Application of the Phinolesi-photophthalein Test in the Determination of the Relative Functional Capacity of the Two Kidners J Humans State H Am Q L EX

To be rehable, the functional test of the kidneys must consist in the sim ltaneous collection of the secretion of both kidneys over the same interval of The test should end as well as begin simultaneously on the two sides The athor prevents preteral leakage by many

on the sound ands the Garcea catheter which is conscal The unne then found in the bledder must come from the other side

Brygant F Rolling, M D

Illumen. F Renal Counterbalance As Experimental and Clinical Study with Reference t the Manificance of Discose Atrophy J bed 10 L II, 150

A study of the effect of increased ork pon kid many made by Hinman brought out many interest ing facts. After bigation of the wreter in rate for periods of one to six hundred days or longer the average total increase in hypertrophy was found to be so per cent of the normal. Hypertrophy is relative term and the size the cell attains is depend-

ent upon the strain t which it is subjected

The article has most important clinical segmin
cance. It points out the lack of test to determine

the renal reserve and the shinty of the renal tissue i hypertrophy and, when surgical preservation of tissue is in point, the further determination of the probable action of competition and renal trophy in the final counterbalance. The anatomical changes

are gradual and progressive

If the event of a 1 stage operative procedure, the hobova being treated 1 separat operations, the second operation must not be too long delayed Repair on the side first operated upon may be so stimulating as to render the work of the unoperated and still medicate side unnecessary. Delay will therefore leaf 4 strophy of drame

Тиона F Franca M D

Papin, E. Lavage of the Kidney Peivis (Les lavages du besance). Arch é mai é ress et é organes gradeux arraguer y 3, 1, 30

The effect of lawage of the kidney pelvia depends upon the condition of the pelvas and urefer the technique and the find employ of There are three types of pyritis, via scale pyritis, ample pyritis, and hydropy one-phrons. To the first type only in sullations are pyhachic in the third condition lawage gives only pullation or has no effect it all The best results are obtained in the second type.

For instillations, concentrated antasptic solutions (especially silver intrate—200 or stronger) is indicated. Although these are well tolerated by the pelvas, they cause considerable pain when they reach the bladder. This moon ensence on he overcrosse by filling the bladder with sait sol too.

In giving lavage it is necessary t fall and empty the bladder several times. Silver nitrate in weak solution may be employed. Even weak solutions have strong bacterioxidal power.

Permanganate of potash has particular indication in gonocoene pyehtis

Medicated on and certain collectal substances have the dvantage that they remain in the pelvis long time. The uther has obtained the best results from the use of collectal sodime which is remarkably off to between by the mucous and has high bacteriodal power. The solution should be alignly the tested before it is negeted.

The frequency of lavage must of course depend on the seventy of the condution but as rule two is gas per week ill suffer and in subscute our discoss, one week. The lavage abould be conditioned until microscopea analysis of the armse demonstrated until microscopea analysis of the armse demonstrated until microscopea analysis of the armse demonstrated until microscopea analysis of the sures demonstrated.

strates seepas

Lavage of the renal pelvis causes crisation of pain sterilizes the pelvis, and decreuses unnary retention. This first result is obtained rapidly. The last can not be obtained in all case. The influencing distance of the commission of the country distance of the prelities can be diminished or

even entirely overcome if the infection is recent, but in cases of mechanical dilatation prior to the infection cases of infected hydronephrosis, lavage will not alter the size of the sac W. A. BENYMAN

Caulk, J. R. Megalo-Ureter The Importance of the Uretero-Vesical Valve. J. Urel. 9 3, 12, 3 5

The occurrence of an enormous distantion of the unreter without any endence of pathologic effect upon the renal pelva or parenchyma is reported for the first time. The embry logical custes are considered and the condition is compared to H reherming disease. Treatment by distantion is not fective but simple meason of the unreter-oversical orifice gives good results. In the female this can be done by means of special sensors placed beside the cytologogo.

BLADDER, URETHRA, AND PENIS

Kidd, F., and Turnbull, H. M. Anglomyoma f the Urinary Bladder Surg Gyars & Ohn 9 3 33331, 467

The uthors report a case of angions own of the binderin man syvers of age. The only symptom was urnary obstruction followed by catheter cystic Cystocopy and operation revealed a smooth peclanealisted tumor about the use f a date and at the appearance of a mpr rappberry. Micro ecopeally this proved t be an angiomyoma of polypod papillowatous form The conclusions dwwn are

Angionna or agromyoma is probably the

most rare type of tumor occurr g in the urmary bladder

If a diagnosis can be made at an early stage

If a diagnosis can be made at an early stage operation may be successful and should lead to a permanent cure

3 If the growth is not detected until a late stage operation may be impossible and death may occur from hemorrhage O. E. NADEAU M.D.

Lower W E. Disposition of the Ureters in Certain Abnormal Conditions of the Urinary Bladder J &m M Au 923 ltrz, 200

The author believes that transplantation of the uriters into the rectum and signed is the best method of treating most abnormal conditions of the bladder especially entrophy. The method of transplantations sinch is associated at the the lowest operative mortality and greatest utilizate comfort is transplantation into the aigmost or rectum extension into the signed or rectum.

Regard g the time at a shirth the transplantation should be done the a thor behever that in the case of children the operation should be defined until the patient has reached the age at a shirth foot much trained t control the anal spinneder and should then be done as soon as possible in order that the control of the anal spinneder for time as well as for fecce may be acquired most easily and completely and the child may muggle in him fellows and begun his schooling at an aserbar gas.

Preliminary 1 the operation the function f the Lidneys is elected up by a examination of the blood and the use of dyes. For to days before the operation the bowels are cleansed, and on the day of operation a rectal douche is given. The patient is placed in the Trendelenburg position and the abdominal viscers are held out of the privis by gause packing. The a thor uses the intrapentones I method of approach and transplants the preters int the bowel by the subenscous implantation technique of Coffer T or three weeks after the trans plantation of one preter the other is amilarly transplanted

The author believes that an amports t part of the treatment is the use of a rectal tube following the transplantation until the rectum becomes adjusted to the presence of some. The administration of salme rectal douther as the of importance

The a thor's senes of bilateral transplantation of the ureters lat the later mitestons melades are teen cases, three of carcinoms and thirteen of extrophy of the bladder. Although the sphinctene control varies, in no metance in this series has it (asked completely and nearly every patient a able to hold the urine for from three to four hours. One nations is able to hold it for early bours

HENT L. S. STORD M.D.

Côté, G. R., and Smith, G. G. Chronic Unethritis In Women. Seeten V 5-5 J gay dramm, 506

Chrome prethrits in the female is characterized by frequency of annation and pain on ording. The cause is probably an antecedent infection which ha left definite pathologic changes. The treatment is, first dilatation of the wrethrat 30 F and then the direct application of so per cent silver sitrate to the arethral mucosa through the arethroscope. A number of treatments to permanty

Res E CREATER VID

MIRCELLANDOUS

Brown, G V A and Corbellie, C Observations with Comments on Study of the Urinery Tract of Eighty Potuses and Young Infants Am J Obd er Grace 9 1. 155

It is a striking f et that an a study of eighty fernies and young infants only 1 ent) for (3 15 per cent) were found ent rely free from discusse While in 3 75 per cent only slight changes such as cedema and passive congestion ere found, these also confirm the evidence that the kidney is value? able and exceedingly responsive organ from its carbest stages of development. The material as not selected all that was available being studied. The uthors reach the follouing conclusions

Evidence of chronicity becomes apparent ten curly age, even in the early mouths of fetal bi

Blood vessel involvement is not accompanient of luctic changes in early his

s Renel harmorrhages, both primary and second ary are not rare in fetures and young infants

4 Inflammatory changes in the fetal kidney may be either cut or chronic, primary or secondary infections or non infections (chemical) 5 Mahament kidney tumors of sarromatous na-

ture may be found during the ery early months of lase

6 Remai calculus occurs in early hi (prenatal and early postnatal)

7 The kidney forms wrine months befor the maternty of the letus, and probably in considerable quantity The fetus may develop a tomeraus from retention in its blood stream of kidney products, independent of the blood stream or kidney efficiency of the mother

8 There is pparently a close relationship be t een the kidney a d the brun and the drenah F L Couver M D

Dondero, A. P. Causes of Error in the Result genelogical Diagnoses of Calculants of the Urinary Tract (Crew di errore sella diagnosi radiciopea della calculosi delle vie semane). Paladui Rome organic ses prat to

Medical literature contains the reports of man cases in both chargoons of unnary calcula was made but no stones are found a operation. The causes of error stay be in the abdomino costal walls. the kidneys and preters or other parts of the b dominal can by

Dondero ducumes these causes of mor in detail Those occurring in the bdomino costal all melode cornifed cutaneous - ris small fibrous tumors, call afied subcutureous glands calculcations in cica trices bose formation in languation contracts insected substances such as soding trichinosa outly ng myonen calcification of serious burger and of the donn'i muscles calcufestion is cold becreas semost bones of the obturator musck tradoos and foreum bother

Conditions in the skeleton and ligaments causing error are calcufestion of the costal artilages false raba, goods of condengation in the pares of the trans verse processes fragments of fractures of the transerse processes exostoses of the sluc bone and cal-

careous denouts in the pichtatic snine Causes of error occurring in the rienes and em-

include calcification at the bifurcation of the orta raicification of the middle twaic of large vessel and calcification of the ass deferents (Dondero his observed case of calcification of the internal and external thac arternes)

In the kidney and areters cause of error is duag none ractude caseous renal t berculous calculous degeneration of the suprarenal capsules phieboliths in the renal veins, calcification of the fitter non calcified ghads of normal consistency and calcified ghad Causes of error is other part of the bilom nul

es to metade babars calculi calcule tion of ar canona of the head of the pracress extra uterine programmy calcufied fibromyomata calcufication of the uterior reach, calcarrous pouts in the or

ries, dermold cysts, calcifying cysts of the broad ligament etc opaque bodies in the digestive tract, calcified peritoneal and mesenteric glands, and calci-

feation in the omentum.

In the diagnoss of vessel calcult errors may arise from forcess hother in the vicinity of the bladder integrand calcult each of the urchins and prost to a detrood cyst of the overy. It is in win that so per cent of bladder calcult may be passed undetected by the Nrs. because of their shipt opently.

W A Bazzuran Kretachmer H L. Keratodermia Bleunorrhagica

Least determine in a very rare complication of generated and is characterized by three cardinal signs, via arthritis, urethritis, and hyperfeatures. From the present

of these agms the diagnous can be made readily. The treatment should be directed toward cleaming up the focus of infection in the prostate gland and seminal vesicles by massage and irrigations or instillations. America in the form of neo araphen aim, was used by Doble-Lees with good results.

ami was used by 100mo-Lees with good results

Kretischmer gives detailed report of a case which
recently came under his observation

I C ROSTISSES, M.D.

Stern D and Rypins, II The Local Wasser mann Reaction. A New Diagnostic Aid in Primary Syphilis. If sens Med. 9 3, vi, 67

A positive diagnose of syphila in the primary stage of the disease is based on () the hastory of exposure is the the most of occurrence and the disma tion of the leason () the piperannes of the leason of its association with set like lymphedemics or secondary emplois (3) the Wassermann reaction of the blood serious (4) the finding of the sprucchet pulishs in the dails feel increasing and (3) the local Wassermann reaction with which this priper local Wassermann reaction with which this priper

is especially oncerned. A point we tark field examination is the most relible and in the disgnosis of primary chance and in the bind of experts as positive in about 75 per cent of cases.

This test is mide by collecting o cm of the serum from the supercous leason in capillars tubes. The leason is properly off it normal salms is obtained freely and squeezed. A small amount of blood ill not interfers in the reaction. The collected serum is then district from to 8 to 6 and

1 to 24 when possible. The routine Wassermann test of the veneral division of the State Board of Health 15 performed

In the nihors series there were forty three cases i demonstrated primary syphila, and five cases of non hietic lessons. These may be divided into the following groups.

Group Twelve cases with positive blood Wassemann reactions, points dark fields, and positive local Wassermann reaction Group one case with positive blood-Wassermann reactions, a negative dark field examination, and a positive blood-Wassermann reaction of the positive blood distribution of cases with a negative blood reaction a positive dark field examination, and a positive "local" Wassermann reaction. Group 4 one case with a negative blood reaction, negative dark field examination, and a positive local Wassermann reaction and Group 5 five non-spinitive cases, with a negative blood of the positive blood wassermann reaction.

Namermann, a negative dark field examination and negative local Wassermann reaction. In the f-rty three cases the blood Wassermann was positive in only thirteen (so per cent) and dark field examination in 953 per cent, while the local Wassermann test was positive in 100 per cent.

Local treatment of the lenon with anti-spiroche ticides will not interfere with the local Wasser man test

The following conclusions are drawn

The local Wassermann reaction, carried out on the surface sers of chancers in forty three cases of demonstrated primary applishs, was posture in all cases. It was negative on the sera from fix proved non bactic lessons.

2. Of these forty-three cases of primary chances.

the dark field was positive in forty-one (052 per cent) and the blood Wassermann in thirteen (302 per cent).

3. Treatment of the lesion with anti-spiroche.

3 Treatment of the leavon with anti-spirocheticides, even when the spirochetes have disappeared, does not interfere with the reaction.

4 When a dark field is not available or the amination is negative, the local Wassermann test is the only method of making a positive diagnosis of primary chapters.

5 The local Wassermann test is a sample and practicable procedure for the diagnosis of primary chancer, and the eliability I the results obtained is comparable it that of the findings blanch with a dark field improscope Janus 4 H MAGOCY M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDOTS, STC.

Bastlemelli, R. On the Diagnostic and Therapeutic Importance of Some Typical Trader Bone Point V Sech M. J. & M. J. & et al., vn.

The attention of liabeline is called t the fact that mer painful coellilm are associated with type I bose point sit ted in it pophyse t the insertion. The ments, profess and recoviler at achievent. The loc then of these point. I follow

I the shoulker the periodialized latentice (the thad proves of the rada in the choice to the ait benefit of the criterial lateral beament to the burerias in the lare anterests on the lateral (tild) could be self the leaf of the fability of at the tips of the malloub in the crit had spoos and in the tips of the C. 3.

These tasks ma itest time to often termed id spathic or far t real disturbances and re often cond and in harminand rithritis

The tre treest has been uper fic consisting of he Unjection of a tapper cent phenol into the tander bon point to J Br an by MD

Dambrin, G., and Mitiniac G. The Disposals of Syphilis of the Disphyses of the Lorg Bones () darp wir de la yphila disphysic de so long) tek from beignd dar 93 ml, 4

Very Legueral, philitic leaves of the looses re dursord a t bercalors tumors, minus, saire sarroms, chronic outcom little et Therefore the authors contend that sach dugmours should not be made til chi led \ n sed buboned maa toon h excluded sphili. Then report a cases of syphili of the duphynet of the long bones. These gurima of the ferre in an adult nere as follow ith hereditary phills phills of the radius and what alcerous guarant of the tible is case of hereht ity phili yphili of the tibl syphilities outeful of the abas ith spout arous fracture sag grading chronic outcomes him . I latent syphole of the radius I only to of the edithe imploms augerst a prhilitic lesson and most of them had been incorrect! diagnosed personal The utbors it that the diagrams of bose

The utbors it that the diagnost as sphilis can and should be made from the chical findings confirmed by the Yra; The treatment should be exit utely medical. We have

Hartwich, A. J. Int. Vilco (Bentug aus Lehre der Gelenkmaruse. 1 & f. Mar (&r. 9) 25, 1

The uthor made hastologic study of several joi t mice obtained from three patient. I two cases there was history of injury and the joint

mk still centaleed. Il presented particle of car tilage. In the third case there was no trained arthrate deformant. Although the after was us able to find any grasslation trace: I the jest remove it this instance, he believe that tortechn-dn in discuss may he be present previously and bull reladed to the time of corrections.

1 remainment (Z)

Kalima, T. The Anatomical Structure of Neutrinous (Leber dea austoriaches Rau der Neuthraue). Lich ann. 9 7 i. 33.

Autopose performed on 1 cases from the Longue Surpcid Chair. In wh. h., one mouth age and one year are respective! I ye med lined as arthlessed clowe par 1 saisle possible as accounter study of the formation of recordinesses. I there observe that we had been accounted to the contract of the same area in formation on lack degree and plant but that it their the degree rather processes predominant particularly in the transplant but that it their the degree rather processes. Mich lead it we formation of jot 1 I both cares studied the humanit coil of the Just was covered with all year fag with their transplant processes. But the contraction of the Just was covered with all year flag with their transplant processes. The contraction of the Just was covered with all years are processed to the processes of the same plant.

I the case operated on one month go the nad its flag aboved marked degreeratin process with the begun ing form ton of cs. it) while the peripheral flags had been partly replaced by monert. Land to the been partly replaced by monert to the replaced of the bone as every been in evidence.

In the second ase the joint ends were covered with r thack laths traves of there was well formed post or in. The joint surface consisted of fairs, fifteen consisted of fairs, fifteen consistent tower 4 cartil posons nertiplisms as not observed. The more restrict of the respect to the fairs of the more than the second in embedance. The see joint half all the mechanical and f nettonal characteristics of a normal joint.

Larlie W. A Contribution on So-Called Myoshia Ossifican Progressiva Lia Butrag sur soge analtes Myoshia cominars progressiva. Designia Zicle f Chr. 19-2, clarv. 38

The disease under discussion it tacks only persons who are under so years of age and it hoot herediting talls, and occurs more frequently in males than as females. Frequently the osadication of the movices began to early per The first 50 stypes are gridually developant vargor rheumatic put also gradually developant vargor rheumatic put also gradually developant vargor sheumatic put also gradually developant vargor sheumatic put and pack per te east the

scapulæ Sometimes acute painful swellings form under the skin Usually there is no mereuse in the temperature but in some cases there m y be slight fever (up to 18 s degrees C) The subjects are regarded as neaklings and are renerally backward A curious characteristic of the condition in a very large percentage of cases is microductylis of the thumbs and great toes. The disease spreads almost symmetrically especially in the deep neck and back muscles along the spinal column on both sides. In advanced stages even the muscles of mastication re involved, the resulting treamus seriously interfering with nutrition. The heart disphragm larynx, the penneal muscles, the muscles of the genital ppa ratus, the eyes, tongue rects bdominss, and the peripheral aspect of the arms and legs are seklom af fected. The disease progresses slowly usually a th interminations, and causes death through liamition or phthms Recovery and an absolute stationary condition remire

Research with regard to the etiology has been athout result. Treatment is generally futile, but recently improvement under roentgen irradiation

kas been reported

thor gives detailed description of the case of a man of 10 years. In this case specimen of bone was removed under local anesthesia and examined the care. The pathologico anatomical development of the entire process is explained as follows

First, a prohieration of the connective tissue occurs. This causes orderna through obliteration of the blood vessels, and hyalinization of the inter cellular turoe through change in the metabolum The byalinmation furnishes the bases for the cal cification and the latter is followed metaplastically by true confication LOTSTLY'S (Z.)

Contemprie, A. A. Case of Traumatic Cubitu Varue (U cua de cubitos varos traumaterpse) Res durthey 9 3, xxx. 6

Under the name cubitms varue has been designated deform ty of the elbow in buch the axes of the forearm forms the that of the arm an angle opening in and instead of out and as normally Contargyrm reports the case of man aged 24 years ho at the age of 6 years, fell from a height on his left side and brok his left elbow

There are two theories of traumatic cubitus arus, the osteogenetic theory and the theory of vicious con solidation. According to the osteogenetic theory the deformity is due t the fact that the fracture of the external condyle bhque from abov downward and from thout in ard, does not in olve the cartilage in its external part but involves it internally about the trochles. Therefore there is unequal growth of the trocklear and condy lar portsons of the inferior extremity of the humerus, the hypertrophied cond le is displaced beneath the level of the trochles. and the hoe of rot tion of the elbow passing through articular eminences becomes oblique these t down ard and out ard W A BELTYL

Michelson, F Primary Infectious Ostsomyelitis of the Ribe (Finege Bestraces our Frage der prim eren miektioesen Osteomyslitts der Rippen) Arch f blim Cher to CHILL 5 4

Purulent osteomyelities of the ribs is a well defined pathologico anatomical and chilical ent ty constitut ing about I per cent of all cases of osteomy clitis Although it is often found in elderly persons, t must be considered discuse closely associated with the growth and formation of the vessels in the ribs The clinical differences between osteomyelitis of the ribs and that affecting the long bones are due to the hidden location and anatomical peculiarities I the In most cases the onset as sudden, with chills, fever and apprenta in severe cases there is come or delimin Locally there is often only a dull chest pain which is increased by movement of the body and deep respiration. Later there is abscess f rmation on the chest wall or on the back, depend ing on the location of the focus

In the differential diagnous, diseases of the hings and pleume can be ruled out by means of the \-ray In subpectoral lymphadenitis the axillary gla da are in olved and the pain on bending, which is characterratic of osteomychtm of the ribs, is beent. I chronic fistulous cases, syphilis t berculosis, and

typhoxi must be considered

The treatment is surmoal, and operation should be performed as soon as possible RATECTER (Z)

Lupo, M. Development I the Upper Vertalia and Occipitalization of the Atlas (Maniestamone di ertabra occupitale od occupitalianazione dell t inntel) Chir d'argent de montmente o

In the terminal vertebra of each segment of the spine there is a peculiar instability of formation by virtue of which vertebre may be abolished or de th morphology akin t that of the contiguous segment. Anatomists have long tudied these facts, but the introduction of the X ray has helped in their chinical demonstration. We have been taught t accept the possibility I two differ ent remonal beteromorphoses of criebrae a caudal development and cranul development in the

group candul to the skull

The vertebral theory of the formation of the skull has been very generally ccepted Anatomical and embry ological research has attempted t demon strat the segmentation of the occupital bone in particula. In proof of the segmental tendency the bone to approach a form like that of vertebras candal to it certain demonstrated anomalies have been cited, viz () transverse or paracondyloid processes on the occiput (2) baselar processes, (3) a third condule (4) confication of the suspensory brament t the aris, (5) an articular facet on the anterior border of the foramen magnum, (6) raised lip on the foramen magnum, and (7) sub-

dramon of the hypoglossal canal

The author attempted with roentgenograms to standardize the hithert unexplained shadon in the occupito atlas region in the bant of the anatomical

164

findings mentioned Both Interal, antero posterior (through the mosth) and oblique views of this rendon ere used

Five cases a th occupato atlantoid anomalies are reviewed in detail. The first, which may be cited as an example was characterized by a brachocephalic head curvico dorsal scolious, torticolha, asymmetry of the face and marked limitation of the movements of the neck. The patient was

23-year old gurl whose father and mother ore la ing and well. The family history was negative as regards deformities. The national's birth had been normal and she had had no illnesses. She came for I ray examination for suspected suboccipital Pott ducase. This was beheved to be the cause of the

tortscolles, but had been present unce infancy The \-ray showed high grade occupital sumi-lation I the tlas. The three adjacent cervical

vertebrat ere fored int one mass. Partial basal segmentation of the educated, dorselession of the seventh cervical vertebra and deformities in the dorso humber spane were found All traces of free

ties were wanting The utbor concludes from his in sturations that a revision of this entire subject is necessary as hes observ tions indicat that in the published cases there is no proof of the development of occupital vertebra and the anomalies should be interpreted as due to occupital assimilation of the atha-

APLLOGO SPYTER, M.D.

Negru, D. Three Cases of Secrativation of the Fifth Sacral Vertebra (Den Farile on Sakrahm tion des foroites Lendenwirbels). Cistal and 9 12, 40

As a rule the pain to cases of micralization of the fifth secrel vertebr as timbuted to spoodybin arthritis of the space or sample neuralini. T de-termine the true cause an X-ray examination is emential I or this, the patient pelvis should be

raned Vegru reports three cases in high the spinous processes were hypertrophied partly symmetrical, partly asymmetrical, and ere grow t the slase nd sacral bones. Before the X-ray as used the

condition was behaved t be spondy little According t American and French investigators, the pain amon ted th sacralesation of the fifth sacral vertebra is caused partly by compression, fraction, or traction and partly by pressure on the Mile humber sers. I the treatment Negra has found that the roentgen ray gives excellent results

Leontjews, L. Spondylitis in Children (Spondylass bei kinders) Lerhand & Rais Che Person

Since 909, 5 cases of spondylitts in children have been admitted t the hospital with which the ther is connected fully five of the patients were between and 5 years of age and fifty bet een In 36 per cent of the cases, most of s and

them thoracic cases, there ere cord symptoms, and in 64 per cent most of them humber cares. there ere cold abscernes. I ourteen of the patients

deed in the hospital The Albee operation was seldom performed. Subsects. ymptoms were usually easily affectated but

in one case severe pair and himitation of motion developed one year fter operation and there as marked fordous below the transplant. both held the second lumbar criebra. The rogaters racture revealed fan-shaped gaping in front of the verte bral body I addition there as decrease at bods length. Improvement resulted from rest, extenuon, and massage

Weber scribes the druppes time of symptom t apontaneous loosening of the bony edge spirat from the spanous proces of the third himbar er tebra II is opposed t the liber operation in early childhood

I the discussion of this paper Wreden stated that he makes curved incresons through the spenous proc cases, but does not use the base! The bone what is lead ribin shallow crivity mide the apinous processes th concave rongeur Bony union cannot be expected for mouths, and until t is obtained eight bearing must be prevented

Smirnoff mentioned the case of 5 year old oman the paresse of the lower extremities he became completely paralyzed. Her the Alber operation A costotransversectom by Menard's method with curetting of granulations brought about

improvement

123

Schaeck stated that present conditions in Russia rustify the frequent performance of the Albee operation because it does to the the rest cure and general treatment Special treatment in sanatoria, however improve the result

Kornell in summing up, placed the mortality in craes operated upon 1 4 per cent and in cases treated conservatively tily per cent. According t Petrograd at tastics good results re-found feet ex t three months in a per cent of the cases

LUNDS OFTEN SACRETY (7)

Duchowskel, S. M. Traumatic Spondylltis (Urber

Since knemmell in 80 trial discribed peculiar type of traumatic sponds has knemmall disease has been the subject of much discussion. Knem mell described the condition Di CULI osteritis of the virtebrae During the ar these cases increased in number Of 300 p tients its inmoves to the sixual column be pured through the Traumatological Instit t 1970t fiv had duarnous of transmatic spondyhtm 1 the literature the athor could find only that here uses I thus article be reports ten t paral hastone from his on large en terral

Chincally is periods on be distinguished the first characterized chiefs by acut amptoms of continuous and myery t the back, and the second

by deformity of the spanal column. Promunence of a criterius not noted before four it is months or even later. In 80 per cent of the cases reviewed the twelfth dorsal and farst lumbar vertebro were if extend As rule the trauman was direct beavy impact or fall on the back. The treatment consists of extension the use of plaster jacket for a to tell or months, and the use of a removable leather connect for not less than a year.

Scauce (2)

Mouchet, A., and Roederer, G. Some New Ideas with Regard t. Congenital Scolintia (Quelques notions not elles relatine à l. scolore congentale) for deribey 9 j. XXX 9

Congenital ecolous may be classified clinically as repoles in total there had ecolous manifertal later Scolous washies 1 borth includes sections with and ribout payment bose anomake. The later which is the more common, includes scolous with superimment, ball ertebra is often found to the left of the lumbar region and perkeen the first and second lumbar.

tebrae
Scobous doe to undateral atrophy of one vertebra
is manifested lat
That listh is associated with a
lumboustral malformation is rather common but is

almost the latest to ppear
In conclusion the authors emphasize the impor-

tance of bearing congenital scokosus in mind in dealing with so-called essential scokosus

AL V Berat

Serantis-Papadopoulos, A. Can Fixed Scotlosis
Be Curad? The Vaine of Abbett's Method (La
scolose fixes point elle? Sur la valeur de la méthode
d'Abbott) Ker 4 ordey 9 3, xxx, 35

The athor gives entited review of the treat ment i fixed scohous, discussing in particular the Abbott method can effect curs only when the scohous is easily red ced, the spine can be hypercorrected and the treatment can be continued for from several souths to several years

continued for from several pointing to several year.

Abbott method is the only rational method at
the only procedure which can curs true acclusar
of nordina several. Spontineous recovery from
such recovery which has been reported serv flood
to be only case of false schools or exchoor
to the only case of false schools or exchoor
to the such such such as the server.

It may be not be not provided in the servers
It may be not be not provided to the server.

W A Rarry Bosse A Hydatid Cyst of the Hip Bosse Cobre

un cas de quase holendro de luses (coral) Rev Asse ned organi 9 (227 750 Hydatid cysts occur rarely in the large bones Of thirty seven cases of cysts in the pelve gride col lected by Landivrar I emy three were fatal nine

ere cured, and the result in the others as unknow. The parasite may remain latent in the bon-

for a long time until pal or an injury forces the pritient's esk aid. There are three types of cyst, the unilocular the multilocular and the alveolar. The most common as the multilocular in the spongy tissue of the bone this causes. Letton this creamed by the infiltration of small vension which in their des deponents, produce a true death of the spongy tissue with the formation of sequenter and ultimately of bone because which mixed the bregion boung organs and end in part or decreations and

The author reports the case of a man of 35 years who hid multicolar succoorges! Cysl. The condition began five years previously but its evolution was hastened by an injury occurring later. The abscesses opened spontaneously through several fast the which sheek discharged purelent fluid and bytain the worked the internal late fores and the hip point. At operation the hip bone was found almost completely destroyed. The patient deed, see byto port later.

W A BREVA

Waldenstroem, H. On Corn Plana. Acid henry Scand p. 1 I. 577

Waldenstroem claims that he and Legg deserve priority in the description of coas plans. They described this disease of the hip in 900 and it was of until 9 that ritides were written on this subject by others.

The ethology is still uncertain

Since observing his first case in 1907 Weldenstroem has follo ed the course of forty cases clinically and with the \(\forall \-rays \). The condition seem \(\tau \) have a definit course of from fix \(\tau \) are yests. Its stages are given as follows.

The evolutionary period (1) the initial stage lasting from one ball to one year () the fragmenta tion stage lasting from tw. t. three years

The healing period, lasting from one to two

3 The growing period, lasting until growth is completed

4 The stage after growth is completed. The end results appear 1 be the same in both the treated and the instructed cases, but fraction appears to be indicated in the earther stages when the bead and ack ack are soft. If pain and contractures are present immobilization is december. Open operations are contra-indicated.

E J Brantone, M D

Koenig, F Internal Injuries of the Knee Joint (Binneaverletzinges des Kniegelenks) Therap d Gepran 92 him, 448

The other reports screentern cases of internal injury of the kines point observed during the last to years I is serve, the memors were affected. The loves need not be considerable, two of the particular ways and the considerable in the constraint of the constraint

The steepersistion of the V-ray pacture is often very difficult. A replaned removin ligament and defects in the surface of the cart large can perhaps be recognized with certainty but the nature of the memotive indrary is often impossible to determine in the diagnosis the continuing pacture obtained fire filling the joint with ony pen or filtered are has proved of value. The a thor has not been able to make up his sained to use arthro endoscopy after the method of Burcher.

In the cases reviewed the operation often revealed other lesions beauties the clust one sho in by the N-ray Ia use case it disclosed, besules the measure in figure longitudinal terr in the terror crucial liquinent with the formation of node in one part in several cases longitudinal terms were found on the

free surface of the benoral condric

The operation was usually performed under local anesathean To open the point a lateral framewer-inclusion is often sufficient. In other cases, a lateral longitudinal incusion is indicated, especially when the path is inplier up in the capacit. Pracre's incusion severing the patiethar beament in front has also been used. Does not make of the thread high section of the proper part of the thread high section.

ment may be considered

The treate of the operation is very good when carried after testiment with both ir early massage, movement and granastics is given. The author has been tempted to suture a row sensition. According to the findings of further in marty news. According to the findings of further in marty news. According to the findings of further in marty to or both mension is wently theoretical. It me see on both mension is wently theoretical. It me see one of the lateral hyposent or the patient does not hallowest the final result. It is of importance that the operation be performed before sufficience architical formans has beerforded. However, the contribution of the patients of the patients of the contribution of the patients of the patients of the patients of the patients.

Nord-Joseph Anatomical Types of Flat Foot (Former automorphis de pred plat) For d'entre? 0 Junit, 7

The \(\) ray has shown that there are different nationical types of flat-foot. Some are character fixed by a certain displacement of the astragaba, others are congenital, while others show the presence

of a calcance sembodal synontoms.
Simple flat foot studed prentgenographically
above these characteristics: () a modification of
Chopurt yout, (s) encroachment of the head of the
astregatins and the scaphod on the calcansum; and
the cabood (3) obliteration of the attragets
calcanacy loose and water on the shape of the small

COLCUMATION OF

pooh) as:

The most marked recatgeographic characteristic of congenital flat foot is inclination of the astragame, this bose being disposed almost virtually and lits sain making an angle of between you and degrees with the tibla. The exhausture is also in claused downward, like the scaphood and the cabout have a tredency toward sprarad subsequent.

Cases are known in high firt-foot is associated with anomalies of the skeleton of the foot. The

most frequent malformation of the lind is absorbed sentification untiling the calcium to the employed I about t per cest of the cases there is a small seprementary bose between the scaphed and calciument. Is rire cases this bose may attum a most larger use said may be matted to relieve the scaphed or the calciument. It is believed to be congential or the calciument. It is believed to be congential pre-securities of this calcium-escaphed synostose with flat-floot has been noted by many surgeons with flat-floot has been noted by many surgeons of the cases. It is the state of the confidence of the case of the cases of the case of the case of the cases of the cases of the case of the section of the case of the case of the case of the case of the section of the case of the case of the case of the case of the section of the case of the section of the case of the

In fit foot assessited with calcine-scaplous synostoms the bone displacements are much less marked than in ordinary caves of fits foot although chically the deformatir may be much greater. As tarialga is all ys present, Nord-Josephan enders it probable that the flat door is the result of refer contraction of the personal and levelor markets due to the name. N. A. Barenas

Sorutag Contribution upon Kochler's Disease of the Head of the Second Metatarnal (Seing are Kochlerwich Krankhet an sweates Metafundorptchen) Mesocien med II chande 1921, its 40;

If m as cases are downlied by the salter Alchord at lay, the second greatarm head is the set of the disease the third is affected any actions. The condition occurs mean frequently during the period of greath to fernales and on the right salt competitively they as pain of occurs when in the tag and broadersomy of the metalizable head and broadersomy of the metalizable head and broadersomy of the metalizable head and broadersom form and structure culturalities are actuarylap affection. In the deference must be considered. The actualities deformant must be considered. The actualities of the contribution of checking therepolase available, or an enrichence of redering therepolase available, or

entromy chine. The above development of the dance arguer aguant perely traumatic origin in no case in punary fracture responsible. Perhaps the condition can be dassefied with Schlatter, or Ferthe's disease to find and broad from mary factors. During the period of growth there is prehumany absolute secrous of the expolyral. Conservative treatment is recommended.

Science 20.

Barco, P. Same Details in the Dispesition of the Finutar Fracia (Sopra shome particularità di depressione della fessia phinture). Pubelia: Rome q. 1, 200, see ther

If ying found many discrepances is the classical descriptions of the disposition of the plantur fascia, the author made a careful study on the cedaver. His findings were as follow:

From the deep surface of the superficial plustaf anoscurous two septi arise, the first or medial or which is inserted on the inferior surface of the celearemm, the narroular the first cancelorem, and the lower lateral surface of the first meetitarial, and the second or lateral of which is inserted on the lower lateral surface of the calcaneem the large eclaence cubold lagament, the crest of the cuboxi the sheath of the personen longua muscle the lower lateral surface of the first mentionarial. Therefore, lateral surface of the third metatarial. Therefore, besides the three regions mentioned in the classical description, these report delimit another sounder the such contains the last the low of the foot are cred by the expit, the untertail by the methal septum and the external by the lateral septum

The deep plantar poneurous is enlarged by the inferior part of the first and by the third metatarsal,

and merges with the septi described

SURGERY OF THE BOXES, JOINTS,

MUSCLES, TENDONS, ETC

Kaplan, A. D. Annesthesia of the Brachial Plexus (Ueber Amenthese des Plexus brachishs) \ e9 Clier Arch 9 n, 144

The anesthes proposed by Kulenkampi in 19 is employed but fittle in Rams but it is write in 6 more general use. The technique of the procedure in described. The a thor success II is induced anesthesis by imperious int the hardcall plerms in that; it cases for procedures such as the reduction and exposition of the cases the anisotropic standard procedures and exposition of the cases the anisotropic standard procedures and exposition of the cases the anisotropic and the operation was then completed athout general associations.

The complexitions of the finestion which may, cocur during the mections are perforation of the subclavian strery and of the doesn of the pleurs. The former is curriedy lammlers of about flow from the control to the subclaviant of the control to the subclaviant of the control to the subclaviant of the control to the cont

Plexus anesthesia is contra-indicated by diseases of the plexus itself certain nervous conditions, and supparative processes in the subclavicular reportable in the cases of children Sciences (Z)

Behnes, A. Smapping Firefer (Zar Frage des schnel lenden Fingers). Vesk e. U. J. 9.2, u, 48

In the case reported shipt myary of the fourth forger us months personally had been followed by more actful recovery. Several months later fermon of the finger became durinted and pumils, an britraction appearing both could be overcome only peasarely. Accompanying this disturbance faint grating could be beand, and the slipping of the fundon over — bitraction could be felt plannly.

Operation disclosed evidences of an injury to the tendon of the fieror diptorum subhims and a infiammatory swelling at this air which produced the picture described as it slipped through the narrow tendon sheath. Restoration of function was complet to months after the operation.

Hourt (Z)

Spiasc, B. The Operative Treatment of Tuber culous Spondylitis (Ueber die operative Be handlang der Spondybtes tuberculosa) Lijel testul 9 zli 67

This is a report of fire cases of spondyhits which ore operated upon in the Agram orthogodic lospital by Albee method. The a thor recommends that the surgeon observations only the subscitcution for operation and operate as little as possible especially in the cases of children. There are certain conditions under which operations cannot be considered wit during the scales stages of the discase cases in which a flistule or abscess situated near the field of operations would make surposs impossible, cases at the supportation in which there are signs of anyloid degeneration cases with tuberculous inchement if their parts, such as the lungs, the cases of small chaldren who cannot be four dean class of small chaldren who cannot be four dean.

and, finally cases with marked gibbus or severe partly as.

The cases operated upon by the author showed good ossification. I four the condition was greatly improved the pain was relieved, and the spasons became less frequent or cessed entirely. In one case

of severe paraly as there was no improvement. The utbor provers of the combs of treatment of surposal tuberculous, and believes that reduct measures should be used only when the conservative method is not practicable. After operation the patent about be lept in planter of P in cast for tent; four months for immobiliation of the sunse and after that should were an orthopedic compared to the present health must be improved as much as possible and return to the brang conditions which originally caused the neckness must be provided severa (2).

Fraenkel, J. Ludlod's Operation for Hallux Valgue and Hollow Claw Foot (Zar Operation Ludlod) ber Hallux valgue und Hobililanium) Zentralii f Chir 9 zhv. 145

Finestel calls tention to the ideal tentity of Leddis' operation which has the dranstages of a wedge shaped ostrotony in distinct in those of operation on the first cursed im bown and a tid draw a and lengthening of the tenden of a hight case, it first stage of the operation, disection of pedimentated flap of the soit parts and removal of the measl crosses, is sufficient. From the experience in saily four operations, the author draw the following configuration.

In the removal of the emotions t is better t excase too widely than not widely enough. In sut ring the flap should be draw snugh; laterally and

the etiology

toward the plantar region with the proximal foint somewhat overextended

Shortening of the first metataral by Ludloff's method also gives very good relaxation of the musches of the great toe in hollow claw foot. In two cases the author obtained very good results by supplementing it with plastic lengthening of the Actulies tendon D vation of the flexor longus digitorum tendon and of the adjacent capsular Brament is added when percentary CLUMANOT (X)

FRACTURES AND DISLOCATIONS

Growman, J. Fractures of the Head and Neck of the Radhus. New York H / by Med Rec # 1. CETA, 47

The a ther reports a series of 150 fractures of the elbow in which there were sixteen fractures of the head or neck of the radius, or of both, and points out that the latter condition is more frequent than is generally recognised

He recommends reduction mimobilization with the effew in scute flemon, and early baking Motion should be deleved until the find has drawnpeared from the radio humeral iolat

When the fragments re too small or the fracture is so gross that conservath a treatment is unpracticable, operative interference is pecessary

DETER W CALL M.D.

Kirinberg, S. Sneedvielistbeeks, Ass Sert. o.t.

LETTI 400 Spondy lobathesis occurs more frequently in makes than was heretofore believed. The lesion presents a roentgenographic appearance that is pathoeno very important factor in motoc. Тишина

Normally the body of the sacram is tilted forward In the transverse plane. The fifth lumber vertebra is also tilted so that its upper surf ce is directed. anyard and lowerd Tan is a cak relationship, the vertebra being held in place only by its brames toes trachments. The X ray picture of the normal estebra shows the body of the fifth lumber to be quadrilateral in shape and ith a definite interval between is base and the body of the sacrom. In antero-posterior roentgenoscopy it is important whether the exposure is made with the tube at the

lember or at the dorsal some The pecture in apositylolisthesis shows the fifth humber vertebra to be dislocated forward so that as a front view one sees its upper surface and the nterior surfaces of the rest. The skadow of the last lumbar vertebra will then show the body the transverse process, lamina, spinous process, and aprinal foramen. A lateral view will show the dislocation very plainly but this is sometimes difficult to beam in the cases of large and fleshy persons

The uthor has recently studed eight cases, one of which was that of a girl and the remainder those of adult males. In all the adult cases there was

clear history of trauma preceding the onset of the O'motoms There is probably some developmental defect affecting the insumentous structures and Predisposing to dislocation, but traums seems to be the chief etiological factor

WILLIAM J PRESENT M D

Bejol, A. P. Fractures 1 the Pairle Car From Ac-Beckenfrakturen) Verer Cher Arch 1917 H. 191

Generally speaking, fractures of the pelvis he received bittle attention charged observations are issufficient and studies on the custiver have not clearly explamed their mechanism. Statistics regarding their sacidence vary greatly. Garit claused that they const tute o 11 per cent of all fractures. and other authors estimate their incidence as high as 94 per cent while according to the material of the Moscow hospitals it is only | 3 per cent (Duchoom)

They are caused not only by direct beary trauma muscle traction a sho of importance. The anthor has collected nancty seven cases Iron the hierature and in this article reports two of his own One of his cases was that of one to co years al ago who was insured by an utomobile, seffence Vertical fracture of the thum bender other murrer Death occurred one and one half hours after the extendent. The accord case was that of a s6-year-old Oman who was injured by a street car A diagnotic of symmetrical fracture of the extenor prive ring with pward dialocation of the right him was The \ ray showed fracture of the left bonsontal ramps of the pube and fracture of the arcentage ramps of the actions with sphotering and dislocation of the right thum. The treatment con-Ib weight on the right sisted in extension ath leg nd 5 lb eight on the left. Measurements of the polvia after fourtees days aboved. decrease in the dislocation. The patient recovered and as

very efficient The athor considers extension method of treatme fractured pelvis Periodical messing and A ray examinations are important. Manage and energies in v be begun in the first weeks Bed rest for eight i ten weeks is necessary The progress is poor. In the ninety seven cases collected from the bierature the mortality as 35 SCHACE (Z) per cent

able to walk after three mouths

Charler Conjunital Lauxtion of the Hip is Hemiphoele Girl (Lamit on congentale de la hances ches une filett hémphopous) Redarker 9 3, 222 55

Charser reports the case of 7 month old child th luxation of the left hip and kemiplens of the left ade. In Chaner's openion the hemplems as of the ordinary ratentile paralysis type, and the hip lumition was merely an ordinary congruital luxation hamplene child I 100 congental luxations he dad not observe any semilar case

W A BEDDAR

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

McGuire, S. Mesenteric Thrombosis, with Report of Two Cases Verpus II Mesth 913 L, 3

Two cases of resenterly thrombons as the subsequent recovery after the removal of yft 4 and 4.6. (die of usual linitetime respectively are reported in south cases the cone in regular with abdomatic linitetime set from the regular linitetime of the thrombons as genuing unitescented the above II dearbons as present, it is watery and frequently blood states of II constiguistion in present, it is absolute. The abdomen is at first soft, directly, and the principle of the feer of 10 ce to 9 degrees, and

later become stiff and distended

The diagnoss is extremely difficult, few cases being recognized before operation or autopsy. When

the abdomen is opened, dark, bloody fund escapes and the distended black costs of intestines are usually found in the pelvis or lower abdomen

The operation of choice is reaction and anistomosa, but it may be best merely t bring the cut ends of the bowel out of the wound

MARCIN H. HORART, M.D.

Olbrycht, J. F. t. Embolism. Polsks ger 168 9

The object if the article is 1 point out the unportance if late abolium it meincal prespondence and to state the author's position is the regard to certain details relief if the question. The material reviewed consisted of sky cases of lat embolium exemptation of the bins; The demonstone bepris with the primise that sitted passing through the heart, the lat usually locifyes in the explainers of the lung and in but few instances reaches the systemic or collation t cause embolium in the brinis, lathory, beart, here and other parts. The state sections, leaves the state of the language of the late of the language of the late of the language of the la

on the cut surface.

In table the surface shows that the most common and artimare fat embohams are found after nipures to the long bones (in marcine of teenty two cases). In mymes to flat and short bones fat embohams are most more rare. It embohams are more rare F t emboham assidem occurs in cases of fractions of the same and vanis of the skill of incurrence of the same and vanish of the skill of incurrence of the same and vanish of the same and prosent of inpury the skillommar large fraction of the same internal organs are upported. Nepolatina and prosenting the same three sa

than is extent. In cases in which a considerable period of time clapsed before death, fat embolism could not be demonstrated. Juness (Z)

RLOOD AND TRANSFUSION

Mauriac, P., and Moureau, M. The Mechanism of Variations in the Number of Leucocytes (Les arations do nombre des leococytes, leur mechapenne). J de sold de Berdesar. 9 3 nr. 39

Van tons in the umber of leucocytes are explained in part by the unequal distribution of these cells in the peripheral and central circulations. It is probable that frequently this distribution is governed by visiomet r inactions.

Leucopenia may be caused also by an increase in the fragility of the kucocytes. In leucocytosis there is an increase in their resistance industring in creased activity of the kucopotetic centers.

Many factors have a pairt in variations in the leacocyte count, but in presence of a leucopensu it is difficult to determine the responsibility of each Eucopensi and leucocyticus may be the result of very different causes, and when they are found in anaphylactic shock in timp to explain them on the basis of differences in the concentration and the rait of flow of the blood is erroneous

TI' A BREDTAN

Halbertama T Concerning the Quantity of Blood Administrated in Blood Transfusion (Ueber die Doserung des Blutes bei Bluttrans-

femores) Noderl Tydache General o Erri, 7 o Hood transfusion success depends upon various details. It is known that in most cases the number of red corposcles per cubic millimeter is increased sher blood transfusion, but investigation who are inchosed to consider this a constant rule will find that in number of cases a dimunition first takes

the blood forming organs are affected.

1 the in extigations the uther reports be sought to establish the fact that the change in the number of red blood corpracted depends in the main on two factors. (i) the body weight and () the quantity of blood transfused. H found that in general an increase of about one million red blood corpracted expends upon the transfermon of about.

place. This is especially true in diseases in which

5 cm per fologram of body weight. Kocs (2) LYMPH VESSELS AND GLANDS

Thompson, J. E. and Keiller V. H. Lymphan gloma of the Neck. A. Serg. 9 3 larva, 3k3. The etiology and pathology of lymphangsoma is briefly discussed and two cases are reported.

Case 1 The patient was what make infant 14 months old who presented t birth a small tumor on the left aide of the neck about on a line th the hyold bone. At the go of I days the tumor as removed. (Edema of the face and lips on the same side then appeared and the tursor recurred in a few z erkz

Complete dissection of the tumor was then done Paralysis of the toproe which followed the oners tion, cleared up completely within air months, but there was still some ordenia of the face and upper lip after this time. It seemed probable that there as also a diffuse lymphangiomatous condition The puthologic diagnosis was hymphanisoms with

an excess of blood vessels Case 3 The patient was a white female aged 5 sears. A tumor on the left aide of the neck, first noticed for weeks previous to the examination, had gros steadily. At operation a multilocular cyst was removed Recovery followed The disgnosis was hygroma (multilocular lymphatic ev t of the

neck) Two years later there as no recurrence From the point of new of the surreon, the chief facts of interest in these t more are that like most embryonic growths, they are primarily benign, and rapid growth does not nelecut malignant transformation. They may and frequently do, contam a large hemangionatous element. In all cases, and especially in the cystic forms, they are more deeply set sted than a superficial inspection would suggest and their deep relations and extensions follow cer tain definite lines predetermined by their embryonac origin. Excusor is the logical method of treatment CAR R STEINE, M D

Mettram, J C. Some Observations upon the Histologic Changes in Lymphatic Glands Fol ioning Exposure t Radium. Im J 11 5c 9 3. chrv 460

The following observations are concerned at the the histologic changes in the iliac glands of the rat follow ing the exposure of the entire animal t the radiation

from radium The author first gives brief description of the normal gland. The afferent lymphatics open at the surf ce of the glands sule the efferent leave centrally t the hilum. The center of the gland a occupied by arregular areas of plasmordocytes which are grouped around blood vessels and separated by lymphatic channels The exact nature of these cells is unknown

Maximos calls them plasmeadorytes and they are so called in this article

Cellular masses of lymphocytes are found centrall located and grouped around blood vessels. Just a thin the capsule of the gland are groups of him phocytes quite distinct from those centrally located Around the margin are follicles consisting of circular collections of macroplages. Marginal lymphocytes are found around the outer half of these corpuscles, but at the mner ade they are scanty or beent Dividing cells are seen only in the follicles and among the plasma cells and have never been dis covered in either marginal or central lymphorie groups. The cells of the follicles are generally accepted as the mother cells of the lymphocytes but several facts are given by the author to refute this argument

In an experiment along this has the rackt size glands of streats were removed and during the seccerding night sufficient beta and gamma radiation ere given to cause muked desappearance of lymphocytes from the circulation. The left that glands ere then removed for examination. It was found that a vast racrease in the marginal lymphec) ter had occurred in each case—thout any increase in mitoris in the cells of the follicles. These lymphocytes presented degenerates changes Control an

mule showed no such changes Cells of the follocks show cell inclusions and it is now certain that phagocytoms of lymphocytes goes on within them. In dra ing, all stages from inchsion of lymphocy to t its final distrategration are about This phagocy tous is about in the absence of marginal lymphocytes and abundant when mar guest lymphocytes are numerous, especially after radiation. The plasmordory tea occurs car the central portion of the gland are undergoing mitous, and it is concluded from reasons given by the athor that they give rue to lymphocytes by their divinos. Prolonged exposure t radiation not only destroys great numbers of lymphocytes but also inhibits the formation of new ones. This inhibition is accompanied by an increase in plasmoidocytes.

After exposure t gamma ray for twelve day the inguinal lymph glands were found to consist almost bolly of phismordocytes. Facts are given showing

that the cells of the follocies can be traced through t plasmordocytes every intermediate stage being noted Under conditions of heavy radiation lymphocytes in various stages of degeneration are found in cells of the follocks and in the endothelial cells of the lymphatics and the blood vessels. Evidence of the closs relationship between cells of the follicles and endothelial cells is seen in the fact that all grads tions between them ca be found, and it is concluded that the difference is only qualitative. The presence of many , oung lymphocytes in the efferent lymphatics as strong evidence that this is their means of emt, but their presence in the endothelial liming of the blood

concis indicates that this is an itemative and The coordonnes dra by the athor are sum

margred as follow Lymphorytes enter the giands by the afferent lymphytics and are devoured by the endothebal cells. These cells then graduall change int. follade cells and increasing in numbers by cell division. they next become con crited into plasmoudocytes The phymosdocytes divide into 1 mphocytes, which the shand by the lymphatics or possibly by the blood vestels The lymphocytoms such follows exposure to the roentgen ray does not correspond in point of time to the increased mittoes in the follicles, the latter preceding the lymphocytoms sometimes pa mena qua-A James Langue, M D

SURGICAL TECHNIQUE

AN ESTRESIA

Von Neergaard, E. Experimental Research on Electronarcosis (Experimentelle Unterschungen enr Elektronarkose) Arch f. H. Chir. 0 exist, 00

Leduc has succeeded in obtaining general and local narcous by means of the intermittent direct current. Previously he had demonstrated the pho-

current Previously be had demonstrated the purnomenon of he electrical narrous in saminals. He then had tw experiments made on himself but these were not pushed to full anesthena. Parsathesis in the extremities, loss of motor reactions, and a feeling of oppression were the chief symptoms

Tuffler and Jardry repeated the experiments and decided the question whether to curarize o use surgical anasthesia in favor of the latter. In two experiments on human beings the semation was described as similar to that caused by chloroform, only somewhat more disagreeable. Jardry empha-maed as advantages of the method the possibility of prolonging the angesthesia as long as desired without nomous effects, and the wide therapeutic applicability of the procedure. Leclere designated it as the method of choice for animals because it is least dangerous. Two experiments on human brings showed that the stage of excitation is more unpleas ant than when other as used Nagelschmidt per formed painless operations with a modification of the Leduc current and showed, like Leduc, that when the heart is stopped by current that is too strong, resuscitation is possible with the same cur

The current so obtained from a direct current by the use of rotating interruption. The thor discusses the apparettes and the estimation of the strength of the current in detail. In the experiments reported, rabbits dogs, and cats were used. After careful shaving, the cathode was policit the fractional shaving, the cathode was policit the first band and the anode to the regions of the bon. The resistance was fairly constant in the same animal libid different animals there are variations from 500 higherst animals.

I goo chose The stages were as follows. Stage it is step of existinces. This differed great deal, being sometimes slight and sometimes try server and decadedly more duagreeable muttat of inhabition narross. As rule it as in possible t case it by gradual application of the current First. There of the whole body was manifested. The head as runed stiffly the mescles of the trunk becames tetanically tense, there was more transcribed exercical from the mouth and northing and sensibility was diminished. Respiration and the Pulse remained uncharacted.

Stere 2 This stage was characterized by very violent defense movements. The head was throw

round, the animal made frightened cries, the resparation became irregular and forced. The corneal reflex persured.

Stage 3. The muscles were tensed tetanically the corneal reflex was dimmshed, roemting occurred occusionally and reflex motions occurred when much culting was done. Without plain definition, parcount then took plate: The corneal reflex disappeared, the tension crused, and aniethesia seemed to be compiled. Accounts stimulation acted for a

surprisingly long time

That the angsthems was complete was proved by the absence of hostile feeling in the dog when the narross was repeated During the experiment, pulling on the stomach was tolerated but traction on the preter caused shight defensive movements. A test made by the author on his own hand demon strated that the pain sensation is greatly decreased but not abolished. From this t appears that the angsthesia is not complet although it is sufficient for most purposes. The pupil was medium large and reacted to hight Reflexes could be chatted only in the lower extremities but there were very marked interruptions of the central inhibitory fibers. The muscles showed constant tonus with chorm to tehms. On uscultation a humming muscle tone

as beard. I shout half of the may make the contract and more that the contract of the contract and somewhat less of the contract of the testinculty contracted monalature of the chest and shdomen which caused femnel breast Suddenly and expuritory relaxation took place, suppressing authorducated narross. This type of respiration is very unit respite and constitutes the chef danger.

After the current was opened the narrows soon ceased. The muscles relaxed and the animal lay as if sleeping. The hind legs were cak, and the gat was stactic. After fifteen t thurty minutes this disappeared Many amorals will take food after five minutes. The instantaneous reversibility mentioned by Leduc is present only when work our rent is used for only a short time. In the experiments reported the narcous was continued for nine bours. After ten mirrates the dog was feeding. The first half hour is the most dangerous. During the narcous a certain habituation of the nerve centers takes place so that the intensity of the current must be somes but increased. The strength of the current was usually from to a ma. Greater differences were due perhaps to differences in the contact of the forehead electrode

When an overdose is given the breathing becomes shallower and more irregular and finally cases altorether. The beart survives or ceases amultaneously if the current is cut off recovery may take place after from ten to fifteen minutes. Death occurred tance has likely five cases. In some case resuscitation was offered, even siter artificial reportation failed, by saliching the same current on and off in the rhythm of reportation. No tondamental differences between the different species of animals are noted. At nectopy wite bears was found in dustrole and small hemorranges due to forced berathing were discovered in this lower perior of the large. Microscopic examination reverted minute extravasation: 1 the brain easier.

Laperments with modified currents have so far yielded no practical results. The theory that the forced respection is caused by an accumulation of carbon-doxide in the blood could not be verified by an analysis of the gases. On the contrary the blood was found noteer in oxygen possibly because of an

increased elimination of factic and caused by the strong muscular contractions

The specific appearance on man require better with the specific personal control of the specific pe

PHYSICO-CHEMICAL METHODS IN SURGERY

ROENTGEROLOGY

Schroeder J H. Intensive Deep Reentgen Irradi-tion. Its Principles and Clinical Application. Currents J M 0 to IV 74

The underlying principles of intensive deep roent gen irradiation consist m () the production and utilization of roentgen rays of extreme penetrating power () the measurement of the relative intensit of the radiation on the body surface and in the depth of the turne and (a) the polication of definite countities of this radiation energy to deep times in accordance 1th the laws of biological resustance and reaction of the tissues

The rays that move from the mentgen tube t voltages of 200,000 or over must be filtered through heavy metal filters in order that the rays reaching the body will be only those that will pess through centimeter after centimeter of tastos with a practically equal percentage of beorption in each succeeding layer These rays are the so-called practically homo geneous rays of Dessauer They are used only for deep application because they allow a maximum proportion of the original surface intensity t reach deep **CLASSICS**

In order to measure the quantity of roentnen radaation absorbed, the iontoquantimeter has been dewated. This is an adaptation to clinical reconstruction of the soumation chamber all known to physicists. By means of it the depth dosage as well as the dosage at the surface may be accurately measured This donmetric technique is the beas of all accentific deep roentgen therapy and upon this technique alone rest the clinical chievements in this field in the German clinics

The effect of radiation upon the cells of the body is due to the quantity of radiation energy, bearbed and constitutes the biological reaction of the cells It may be said in general that small doses writate and large doses destroy cells and tasses, but differ ent cells and tuenes of the body do not manufest their reaction in the same degree. Some cells are ery spacepuble or radi sensitive and some are ery remstant Upon this difference of radio sensitive new rests the shifts in thereby to influence one

tissue more than the other The biological effect of roentgen radiation is the reason for its chincal application t destroy or reduce the functional ctivity of the very susceptible glandular transes and to destroy neoplastic cells

Certam histologic types of sarcoma are very rathosensetis and when such acoplasms are localized they may be expected t duappear rather promptly under the raffuence of proper radiation doses. It has been determined that an So per cent skin unit done is sufficient to destroy surcoma cells. In widely dis-

seminated surcomata less (avorable results are to be expected but even here remarkably beneficial effects are at times accomplished, as in two cases briefly described

In the treatment of deep carcinoma by the roent gen rays to emental that from co to 1 o per cent skin doses be absorbed in the cancer cells. To accom phish this, great refinement of technique is necessary of modue moury to the overlying akin and surrounding structures is to be avoked Cross-firing from two or more portals of entry usually accomplishes the deared result. The dose must be administered in one sitting because there is no way of measuring the dose so sum of fractional applications. Under present operating conditions the dose can be administered to one area in four hours of constant radiation, at

cm and through a body diameter of depth of 10 CIR

It is not considered saf to repeat carcinoma dose in less than six weeks, because the physical effect of such an irradiation dose persists about that long There is a rather noticeable effect on the blood forming organs, rather than on the blood itself that leads to reduction in the hymphory tes and, to some extent, of the red cells. In persons with good result ance the blood parture becomes restored in the course of mx weeks

Cancer of the pelvic organs is particularly amenable to roenteen irraduation because of the available connective timue elements which are undoubtedly stimulated through the absorbed radiation. Several cases of deep curemoma are reported in detail to illustrate the remarkable results which may at times be obtained by the newer intensive roentgen therapy The effects are not alse ys equally promising however as recurrences may develop and in some cases the course of the mahamant disease does not seem to be influenced by the nradiation

As regards the dangers attending deep irradiation. the author states that he has applied required large arradiation doses t most of the regions of the body except the brain, and has observed only transfent irradiation by-effects. The patient ability to react favorably t the primary effects of deep irradiation doses may determine the final result.

ADOLINE HARTONO, M D

Lacassague, A and Contard, H. The Effect of Radiation of the Ovocytee on Fermidation and Gestation (De l'inforace de l'uradiation de ocytes sur les lécondations et les gustations alterseures) Gynk a obs 923 vn

T determine the effect of roentgen radiation on ova subsequently to be impregnated and on the ove of the offering of animals whose overies had been radiated the uthors conducted three experiments. Seven normal female rabbits in one group were subjected to radiation; two female rabbits born of the first group were subjected; radiation and six female rabbits born of the first group were studied but not radiated.

The results of these experiments were besefu

1 In the rabbit of the first group there was period of temporary ferifity of from three t four months

Fecundity as re-established but was diminilahed as shown by a progressive reduction in the number and visibility of the emborn of successive litters and the fact that costus—as frequently sooreeducti.

3 \ vectordary progress; e tenhty was produced which erestly resembled a definite premature meno-

passe
The effect on the newborn rabbats was a consider able mortality. Of fifty one rabbat born of radiated rabbats (wresty alice deed abortly after burth as compared with 6 of fair rabbats born of sormal animals. The twenty-t was animals which survived were normal as burth and developed normally t

adult age
The two female rubbits in the second group be

came pregnant and their first litter as normal in every way. Following radiation the findings were the time as those in the first group.

I the third group the lif habits, and litters of the nimals were normal in every way

The conclusions drawn by the a thors are as follow

The lessons produced by a single radiation seem to be definite even after small dose. The one high some a ret ahered, an alteration which mainless shell sooner or later cronding to the severity of the lesson, in the course of development of the follicle embryo, let que persoon.

2 The ora are different! affected by radiation Those that are most developed suffer most and only a certain number of primordial follocles reast the action of the ray

3 The changes in the ox are demonstrated by the presence in the gravid sterms of embryos in different stages of developme t both embryospecia and pathological, in addition t well formed in him or

4 The experiment are too few t warrant the statement that radiation does not exert defaul cellulo breeditary industrice

g. Railiation has no effect on the determination of sex, as the proportion of males to fertales among the remborn of railiated female rabbit is always

noternal

6. In the human female \ ray treatment of the orarfee even farmail doses, may infloence the fuse tissue of exprediction become if Therefore the application of the rays to the treatment of metro-risking in young women causes certuin permanent damate even bough recurring too may return damate even to bough recurring too may return.

RADIUM

Degrals, P. The Value of Use of Bets Raffant Rays (Utilité et atdrastion des ravous plus rains). Person méé l'air qui una 11

Although the beta rays are the most important entired by radom, all the practice of radom ray exercil attributed to the gamma ray that has been seen and the second to the gamma ray that has only beach poser of practication, for every is rahussed on the superficial layer of the most when they are applied to the marter. When the beta ray is are billered out, he or practical by probled but of desired, a therapeutic demands in product but the second with the second with the desired with the desired with the second with the s

If exemp is treated, the negation of radius of ment with a filter which treat he bet any, there is no change to the basson, but if the same assortion of column is applied. In a filter which permit if the hand and secondum beta ray, it pass, the operation of the hand and secondum beta ray, it pass, the operation of supplicities purposers are soon modified. The beneficial effect if the beta ray is betterion moderable between the mental of the moderable between the supplied of the the

th lesson ill not be changed

\text{hosog the coordinous axies hie to the action of
the beta rays are exactina, prodermitis acre papillong wart numerated new hinos estata and

omata pre-epithebomatous onditions and cert #

utancous epitheliomata

The action of the beta ra is much more raps'
than that of the other a countred by radium
Therefore if the desired results can be obtained with
them there are preferable it the raisms ray

4 8 D W

Lawrence II Experimental Research Work in Radii on Therapy Jaciosing Death Resardation of Grawth Prolongation of III Determination of Sex. Seculization and Artificial Farthersoftensis, Reproduction, Without the Valle III of I invalue

This article deals herfly in he indicate or inradiant prior the metamorphosis of insect Lif. The experiment were done on he Bomby more or common alls own moth and h. Leen gaing on Eq. () years not insouth. The generations would be serve become of the null year of adults radiations, and the great heavy sking plan. It

due t the con moved esponents

It was found that the over the moth or posed to make of pure of merchants with

In distance and one is entitled must rest control, the on were so after of the 1 though far tabled, the entit destroyed.

Other extremites to which alians in or leaders

nterceptors were used howed be great value of the high relocit bet lectrons i en Radium C which he not present in the Very). It is low found that under the influence of ridium the life bistory of the insect is being altered

In the daintegration of radium, alpha particles, bet electrons, nd gamma ray are produced, it is estimated that the energy expended in bringing about these chi ges is equal to that developed i tube voltage of one or t o million olts A the greatest tube voltage which ecleptists he been

ble to develop in the production of the \-ray is bout \$50,000 olts, it is seen that the initial force in the production of alpha particles, beta electrons, and gamma ra a m about four t eight times as great as that used in the production of the most penetrat ing \-rays yet produced. In fact, the gimma ri a of radium are 3.5 times greater in penetration th the most penetrating \ ray yet produced.

Two cases di gnosed as papullem ta of the eye interfering 1th mon are reported. These were treated with an applicator emitting even soft beta electrons Both lessons disappeared and the patients

are well

The athor calls particular trention to the fact that the beta electrons present from Radium C are of immense therapeutse importance 1 the nobstructed \ ray there are none except the few soft, slightly penetrating ones formed when the \ ras strike these and these are of slight efficiency as

compared 1th those from Radium C Emphasia is placed by the uthor on cross fire treatment in which beta electrons are used locally and other preparations close by emit summ ray only The flicsepay of this form of treatment is illustrated by three cases of epithelioma of the lippersons who previously had had a clinical cure of the disease. The other does not regard these cases as recurrences but states that the lessons f rm in persons prechaposed t the condition. All of the cases cated er linicall cured by the cross fire method. A case of epithelioms of the larynx as cured by placing radium giving off bets lect ons the holios of an intubation tube against the

growth ad cross firing th gamma ray from the

exterior of the neck

The lethal dove for on of the allowerm was found t be the use for one hour of 1 mgm of radium bromide screened only sufficiently to bear the alpha and the softest of the beta electrons. Larve only a few days old were killed in from two bours to three hours. The time required is greatly in creased as the grub grows older. Cross fire bet een two 5-mgm tubes was found to be more effectly in one bull bour than the use of either tube for one hour When pl ced directly upon the ova, the ridium killed about ten eggs, but when it was placed 4 or 5 mm from them it killed twenty eggs This proves that in the therapy of rodent ulcer diffusion must be come dered. A tremendous dose of I ray equal to about ten en thems doses-100 000 volta t ma 20 cm from the nticathode for four hours and twenty minutes with a filter of 1 3 mm of corner ad mm of aluminum-res ited in the free hat hing of the eggs

The \ \ and rad um rava are not alik especially when high electry beta electrons are cases, one of basal cell and one of acquamous cell epithelioma, are cited in which a curs as effected by radium with the use of the high- elocity bet electrons. In harvie given radium

in doses una fficient t kill, growth is returded. Also aceds exposed to radium are ctarded I none of the many experiments carried out on nimals and excetables was there any evidence of timulation every case there was retard tion, if any result t all. The seeds of turnips exposed to radiation howed deformit and retarded growth when radium was used but appeared unchanged when the \ ray was employed. This supports the uthor contention that the high velocity beta electrons of radium should be employed whenever possible, and that the betains a formed when the rays strike tusue a cooft and feeble in penetration as compared with those from radium. Kroenig and I nedrich have shown that the action of soft and penetrati g \ rat is practically the same \
evidence of 1 mulation was found in over ,000 experiments with rad um in all possible types of exposure

In the tenth generation of moths kept under the raffornce of radium there are bout fi males to one female. This change is attributed to the radium ! frence Sterilization of the moth can be produced by radium at any stage of development. The \ ray has only slight power to produce sternization

I J wes LARREN, M D

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PRINCIP LOGICAL CONDITIONS

Fawcett, J. and Ryle, J.A. Cases of Delayed and Immediate Anaphylactic Shock, with on the Circulatory Phenomena. Best 11 J

True anaphylactic shock in man is rare. Note th standing the innumerable instances of the repeated administration of various sera during the war has been generally conceded that cases of serious or fatal anaphylans were few. It is recognized that man is less sensitive and less easily sensitived than the experimental animal, and it would seem that hypersemutiveness in man is more apt to be an inborn than an acquired phenomenon, and that most of the recorded fatal cases were those of

The first case reported by the uthors was that of a woman, aged 23 years, who was admitted t the hospital became of a septic finger While she was under the influence of an annethetic during one of several operations, so c can of antastreptococcus serum were administered. Four days later patches of urticaria began to appear and eight days after the injection the appearance of large patches of urticaria was associated with asthma, pullor rapid and weak pulse, and sensation of cold Following a small dose of adrenalm the asthmatic symptoms disappeared. The pulse at the rist became imperceptible and remained so for over twelve hours The apex beat could be felt and remained about 10 The patient was never cyanosed, and she continued to be mentally alert, quete rational, and calm She was treated throughout with warmth, small quantities of field, brandy and lactose by mouth, and the rectal administration of glucose solution

Twenty-eight bours after the onset the radial pulse could be felt faintly. The patient then complamed of acut pain in every joint. The pulse rapidly returned to nearly normal about therty four hours after the onset of urgent symptoms. Two days later the joint symptoms had entirely disappeared, and subsequently recovery was unaventful except for the development of an bacess which was presumed to be metastatic, in the right but

The temperature reached s degrees F when the shock symptoms ere at their height but quickly fell again to normal Gastro satestinal symptoms were absent excepting at the onset when vocations occurred to ke and there era to bos el movements It was later discovered that dering an attack of dipatheria maetren years previously the patient had been given antitonia but there had been no resulting symptoms. The uthors therefore assume that, in

spats of the long interval, this was an instance of sensitization by a previous dose

In the second case, that of a soldier the symptom appeared thin an hour after the administration of third does of ATS After one of two previous prophylactic injections the patient had felt ill. The symptoms observed in this case were almost identical with those of the first except that asthma was absent, and with the exception of the symptoms of curculatory failure, gastro-intestinal symptoms en the most promusent

In both cases the fluid intake was well maintained and there as no unusual loss by sweating vomiting. describers, or discress. The symptoms of circulatory shock persented long after the desappearance of bronchial, cutaneous, and gestro-intestinal reactions The uthors are not familiar with any other condition to which pulselessness can persent for so long with a good prognosse. The cases reported emphasize the importance of obtaining history regarding previous serum treatment in every case about to be treated Stater J Street, M D

Lambert, R. A. Oriental Sere (Cutaneous Leich

manisale) in the United States J Am M An A wider knowledge of oriental sore on the part of American physicians and pubbe bealth officers is emportant as in the last two years it least eight cases of the infection have been reported in this country and Canada Lambert reports two cases, and out anes the course and treatment usually followed The article is concluded with the following summary

The two cases of oriental sore in the United States here reported make a total of ten cases re corded in the last two years

The incubation period may be long. In one of the reported cases the lesson did not popular meni three months after the patient trival in the United States, and probably eight months after the infec

 Biopey is to be advocated in suspected cases, the specific protoson (Lembrania tropics) being more readily demonstrable in properly stained sec E C ROSTELLER, M D

Otrgoleff, S. S. The Pathegraphic and Treatment of Spontaneous Gangrene (Zer Pathogrosse and Therape der Spostnogregrace) Il coloni (20 /

The term spontaneous gangrene has been appixed to a number of diseases in buch the most straking symptom is gangrene of the lower extramity but should be used for only those in which there is an underlying involvement of the walks of the vascular system. The charges in the vascular wallcoassi in a thickening of the intima beginning in the membrana clastics with the formation of thrombours along the wall and ending in occlusion

of the vescular human

The cause of these changes must be sought in changes in the blood consisting in an increase in the yraconity and congulability greater resistance if the erythroestes, and an increase in the vasoconstrict me property of the scrum. The disease may be characterized as a toxic ananoaclerosus of true a totome condition According to the views of Oppel, the came of the change in the blood may be a disturbance of the function I the endocrine glands, in high constant vascula smann is of great etiological importance. The uthor regurds as loncal Oppel a proposal to remove one suprarenal pland (the left) in these cases of gangrene as the su prarenal glands produce substances which constrict the blood vessels. Gurrolaff has carried out this operation successfully SCHLACK (Z)

the blood vessels Gurpolaff has carried out this operation excessfully Scausa. (2)
Pearklewicz, L. The Causation of Newplasms by
Tar (Erseurung on Neublidingen durch Teer)

Politic res Ht o 1, 707

The settler reports has attempts to esuse cancer by the population of the offer the method of Yangher to the control of Yangher to the property of Yangher to the population of the spatial population of the spatial population of the spatial population of the spatial population of the population of the spatial population of the population of the spatial population of the population of

The wibor's experiments were made on white rats, half of them young and the other half old, and the tire need was that sold by dreggists for thempeance purposes. Irritation was caused with the tire every second or third day by robbing it into the back, robbing it into the taken after previous scanfication, or by subcutaneous or intractianeous mections. In female animals it was aspecticed into the mamma or robbed into the skin below them. The area of mection was carefully whaved.

All the animals remained alive and in good bealth. The author does not consider his experiments as finished, but so far they have convinced him that it instate, critism spot alone a not sufficient to cause malignant accopiam, even if this is done continuously and in the same numer other factors continuously and in the same numer other factors of the continuously and in the same numer other factors of the continuously and in the same antimodial and race predictions. The before one than the continuously are cannot be considered schemal with other cannot be considered schemal with other the continuous he expressed color as to a battle the metastases observed to spring from the proplasma are true metastases of these neoplasma set true metastases of these neoplasma.

TURNET (E)

GENERAL BACTERIAL, MTCOTIC, AND PROTOZOAN INFECTIONS

Chaout, H. The Treatment of So-Called Sorgical Tuberculosis (Des Rehandlung der sogssansten chrurguschen Tuberkulose) Jahresk f. crtil. Foribill. 9, 2, 224.

This article is a thicussion of the effect of roentgen translation. From 100 to 911 fby persons with tinherculous lymphadentis were treated. Stray-four per cent were cauchy debet of survey beneficial, and 3 per canvalle results are obstanced in the inflammation of the condition. The condition of the condition, the same stray byperplastic forms of the condition. In glands which have shready become softened it is advanable first to evacuate the pus by puncture. The advantable first to evacuate the pus by puncture. The salvest stray is the purpose of the condition of the salvest restrictions occurred in supporating ulcerntive or finishess were obtained with medium strong does (40 t. 60 per cent of the slan erythems dose) serven is since a view of serven is slane, at the most

Of A persons with tuberculous of the bones and ounts, surty-eight were cured, thirty-mx were bene fited, eleven remained imalierred, and four died The dosage in the depth of the area of disease was so to 60 per cent of the sky erythems dose. The most rand reaction was seen in tuberculosis of the foot, the hand, the ribe, and the ternum. In spondyhtis, the greatest care is necessary because of the danger of the dunntegration of bone. In the presence of tendency toward besting in tuberrulose of the bones and joints the favorable effect of the roentgen arradiation is noted early. In somcases the results are considerably improved by sur gical interference for the removal of loosened soquestra and the puncture of gravitation abscesses. Increons should be abandoned because of the assocrated danger of secondary infection

The results of rocutgenotherapy are favorable also in peritoneal and surgenutal inherculous, particularly (aberculous epidolymits). Of ten patients, six were curred and three were considerably improved. The decage was similar to that used for the trainent of the it push nodes. The area selected should not be too small.

In conclusion the author states that even though compare favorably with belieberapy in every localization of tubercubes, it belieberapy in every localization of tubercubes, it nevertheless has such great advantages in regard to the abortness of the treatment of the esse of its application that it should be given preference over heliotherapy in many cases, even though the outlook as less invorable.

Works (2)

EXPERIMENTAL SURGERY

Sweet, J. E. Som. Recent Developments in Sorgical Research. Pennylvana M. J. 19 3 xxvi, 196.

BIOR INTERTIVAL OBSTRUCTION

The symptoms of high obstruction do not at first differ from those of any other intrapersoncal condition. The physician should not wait for localizing signs, but should get the patient where surgery can be don if necessary. In the meantume the use of morphine is contra-indicated as it paralyses perstalass and increased perstains in the body's attempt to

get rid of the toxins

The author mentions are not theories as to the came of death from obstruction. An eighth theory is that under the conditions of obstruction some of the control of the control of the control of the control of the mesons membrane of the mestime. This theory has been questioned but not dispurved and in the mesons membrane of the interest. This theory was the control of the control

The study of the problem by producing various types of obstruction is so complicated, and the interpretation of the results so difficult that in recent work a stitempt has been made t study the effects of the posson in the normal animal. The poson is blamed by precipitating the content of an obstructed loop of intestine in alcohol and can be further purified t some extent 11 ben dose in injected intravenously int normal animal the picture which follows corresponds to that in an animal with an actual obstruction, and the autopey findings also are constant and typical Therefore the intestinal content of this animal, with no bstruction and with nothing whatever done to its intertinal tract, contains the same poseon. It is scarcely probable that this torus is the injected dose, for the great dilution in the fluids of the entire body a d the loss incident to the crude methods of collecting and recovering it rule out such poss belity Accordingly tacems apparent that the toxin studii creates conditions favorable for its further elaboration. This experiment has been carried through four consecuts, animals. I the findings of the experiment described, another observation is added, viz that the same toxia appears in the intestine after the removal of both adrenals when there has been no obstruction of or operative inter ference with, the intestinal tract Tais phenomence, therefore seems to indicat strongly that the only factor responsible is a disturbance of

process. The experiment with the normal annual and the nature cross superiors can be curred out in realtively short time. The annual is statched realing upparties, causails are placed outers of each portion of the interiminately of the process of the portion of the interiminately I thin ay t was processed to the control of posson as greater in the modelum liber in not limited thereto, and that it appears before the characteristic hemorrhage not the interime.

By different line of superiment, the author and his consorters arrived t the same conclusion as Whipple namely that the cause of death in high obstructions as a posses which is formed in the reliof the macross membrane of the small interiors more in the upper small miretime than in the lower which passes in two directions from these cells—and the lumino of the intestine, where it does to further harm, and into the lymph and blood streams, free which the tome effect is enterted upon the body as a

In explanation of the life saving action of the

stomach pump before operation. Sweet mys that by removing the toxin already excreted into the gut, gastrac levege creates conditions i vorable for the excretion of still more toxin late the gut, and the greater the amount thrown out into the board the less the amount to be absorbed fato the body Therefore the intestine should be given every chance t empty much back into the stometh, morphise should be withheld, and water abould be given by the intravenous injection of saline solution. The appear ance of the large bowel is these experiments leads to the conclusion that torm is bring excreted into it Therefore water should be given to wash the product of the mucosa into the bowel. The finding of the ton after adrenalectomy suggests the addition of adresslin to the salute solution. The operation of choice is the one which all permit the most thorough drausage of the box I both above

and below the obstruction. The administrator of salars solution abould be continued also after operation.

THE EXIECT OF S DEUK GAOA POSSUR /ES/OOM

The work of the author and his coworkers with radium began—ith the request of France for an experimental study of the effect of radium upon the normal tenses of the brain and cord to obtain more direct information as to the best procedure in the treatment of brain tensor.

The first effect of the radiation is upon the noted of the cells. This may be infliciently server to excee the death of the cells but does not deather therein to be forment. These forments that the institute of the cells, and if the cells reatine help protein, the tene products of protein bestden are net free and a resolution at the surface and the surface and

The author eximmarises the conclusions drawn from these experiments as follow

"My should not place our confidence in the use of radous abone. N operable condition should be extrusted to radium abone. All remo able cells should be removed with the lands or the cutter, let ung t radium the task of reaching the small masses of cells in the metasticer. I other bords, operation plan radium to recover the control of the perturbation of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the task of the control of the control of the control of the control of the task of the control of the control of the control of the control of the task of the control of the THE PUNCTIO OF THE GALL BLADDER.

The only mechanism for the emptying of the

The only merchanism to the couplying of the gall bladder which could be found was the pressure of the discent organs and possibly a slight negative pressure which might be created in the intramural segment of the common duct as was a of perpitality passes over this portion of the intestine

The organ is signified with by make is tem out of all proportion to the amount of tasser contained in its wall. Drings the process of casecularition, the start of the bile can enter only the views or the hymbalics. The development of the hymbalics is certified as to surprise that the concentration of the bile takes place by means of the section of these contained and the start of the start of the start of the section of th

Experiments now in progress further adicat that reactions for bile can be obtained in lymph collected from the hymph channels of the sail bladder

The demonstration of the extent of the lymphatic pourates of the rall bladder and the speed with which substances pres from the gall bladder into the hymphatics has made clear to Sweet the direct ness of the relation between other intranentoneal infections and choleculatitis. As he sees the process now organisms from chronic appendix for instance pass int the portal blood stream are filtered out of the blood by the liver and then thrown int the bile. Were t not for the concentrating f action. of the gull bladder and the direct rel tion t the lymphatics, these organisms ould pass out through the common duct t the interior of the intestine which is, tricily peaking, outlide of the bods Instrud they enter the gall bladder and pass the stream int. the lymphitics, where they cause inflamm tion I ery infection of the body except m rmu ush mphangts

With regard (the "alme of the disoderal bucket on the diagnosis of gill bladder modificates between the diagnosis of gill bladder modificates between the man of the same of

Wit II F and Beets, R II The I fluence of hedrum faileylat upon the Arthritis of Rabbit ineceisted with Non Hamolytic Streptorect J I pr M d 9 3 2270, 551

Rabbit inoculated intra enousl with nonharmodyte treptococci des loped inflammation in livest many point while nder the influence of full therapeutic dones of scalarm salecylar as the unfraented outrols insilarly inoculated, but the inflammation was roughly be severe.

This infiammation inhibiting effect was most evident in the animals inoculated with streptococci of the lowest virulence, and could not be demonstrated in animals inoculated with harmoly the streptococci Sayerr, KANY M D

Marinesco M. G.: The Rôle of the Ordizing Ferments in the Machinshan of Thermogenesis and Ferri (Relactates as Is role des fermants oxydants dans is méchanisme de la thermogenèse et de la fèrre). Preus will Par 9, 3 xxxx. 53

As the result of his investigations the author concludes that the most imports it factors in the regulation of thermogenesis and the development of feerare the conducing ferments. These vary in quant by in different animals and it different temperatures. They are very abundant in man and in birds. It all febrils desease the cells containing ferments increase in umber activating combission through but the body. W. N. Pars.

MEDICAL JURISPRUDENCE

Physician's Right t Sun Employer (or Services Performed t Ha Request for Employee Not Affected by Compensation Law II cravit Hasten Bakery & Lanck Room 97 \ 1 S pp p \$11

If the employer lares the plysecan it is simply a matter of contrast between the physican and employer. If the amount to be paid is stipul ted, the physican is entitled it receive that sum. If so mount is named, the physican is entitled to receive the reasonable a like of his services. A failure it pay gives nike it common law cition that may be provedured in the courts. There is no more reason for it; the Commission the right to limit or control the sum it be paid under the contract of employ next that there would be it require all contracts with employers to be submitted to the

contracts with employees to be submitted to the commission t pas upon the reasonableness of the ges agreed t be paid. Ruttax E Moo ro

Surgeon Who Agrees t Perform Operation Does Not Guara tee Results. It dies. Blate 1 Por Rep. p. %

The plas uff 1 this case alleged that In J no 0, he sustained a num to the thumb of his left had d hich rendered the first point suff that he was gweler fulfed in replaning watches, doing cours un and manuf utuning swelfty that he con which D linn who for a shalled consideration possible the flar who for a shalled consideration from the fundamental of the control of the control

emicet of \$5 000 ws returned a favor of Wilson From thus a ppeni w taken

The question presented is. Was there an agree ment bet een plaint find defends t enforceable t law by which the latter guaranteed and w. r.

randed that as a result of such operation the phistiff's hand would be curred of all defects, and resident too per cent efficient? If the contract in question was merely that the defendant was 1 perform a surgical operation, then the law requires that the defendant posses the skill and learning which is observed by the awaring member of the medical protession in good standing in the community in the contract of the results of such operation, with other and all apply that skill and learning, with other contracts of the results of such operation.

It is apparent that the arranty was inside after the agreement to operate and to pay therefor that the warranty did not become a part of the contract or operate, and that there as no consideration for the warranty. We are of the opinion that the trial court erred in dies, jug the decidant's motion for security, that the vertice to agranded the solid of the contract of the contract of the contract warranty. We are the contract of the contract of the William E. Mooret are the contract of the

Responsibility of the Physician in th. Case of an X Ray Burn. Streets as Turner y thanks

Art 00 The defendant in this case was an osteomithic physician Stemons was his patient. In the endeayor to diagnose the latter's complaint the physican mad a number of rocatrenograms of the al fected region. At this point a burn developed, cans ing pain and suffering. On a trial of the case judgment was rendered against the physician and an anneal was taken principally to test out instructurns that the physician claumed ere erroneous and prejudent to him. There was nothing in the case which showed that the machine was different from those perimenty seed or that the physician, through bel of transms or otherwise, was incompetent. The turns was therefore immited to whether the physician med the machine negligratly or ignorantly. An in struction t the jury that the physician was required to use a high degree of care when the law recovered him t use only the ordinary care generally exer

him t use only the ordinary care greenly care cased under like circumstances, was therefore dechared erroseous.

The trust court also bestracted the jury generally as Johows: All of the physicians and the X-ray

concentral agrees bate, by "cooper and carried use of certam ancorpied and if recognized form is by the profession, which formate has been described and which you will result, as a Tray bour could occur. The detendant says that he need a formalise occur. The detendant says that he need a formalise agree he did, then his application of the defendant data may be found that he has populated plantiffs ground the content of the detendant to the plantiffs ground of restatu as a find as fact that the plantiff would restatu as 1 and as fact that the plantiff of restatu as 1 and as fact that the plantiff of restatu as 1 and as fact that the plantiff of restatu as 1 and as fact that the plantiff of restatus and the same of the prove, then you would be justified in concluding that, while the defendant told you that he med the X-ray according to harmless formula, he was not toking your the truth, and that, on the other hand, the formula

that he did actually use was a negligest and as proper formula under the cremmstances. The Someone Court beld that this was not a far

statement of the Souri restriction to the souries as statement of the Souries of

The court unduly stressed the fact that the Y my a dangerous instrumentable; This is true also of the surpross's limit. But if human fils are to be careful with mistrimentablese must be used. "" the court of the mistrimentablese must be used. "" the court of the co

Responsibility of the Surgeon in the Case of Burn from Hot W for Bog Harber at Golds, not Pac Res o

More Harber was operated upon by the defead ants, nd after the operation, hile she was in an unconscious condition she was by them takes from the operators table and carried to, and last on a bed which contained three hor a ter bottles evidence as to who placed the bottles in the bed is uncertain. It was the duty of the special nurse, completed by the patient, to attend to the normal of the case and to trend the bed. When the sar grous arrived t the hed two hot water bottles wert observed by them and the purse who had recompasted them (not the special gras) was ordered by the physicians t remove them. To of them see removed, but the third remained in the bed. Before the patient recovered consciousness her leg was #verely burned by the hot water bottle in the had In the total court medicated was entered against

the physicane and the hospital. The Supreme Court stated they not sustained they not sustained they not sustained they not sustained the additional that and duty of contrast, the continuous that they not sustained the additional that and duty of contrast, the contraston that they noted he be hable would be some Hawing understaine to cury the patient to her hed and putting her in the bed, at was their dirty to how that the bed was free may thing that might harm or enthanger the believes puttent. They had no might to close their eyes of patient from danger accordingly the pudgment of the patients and the summer of the property of the pudgment of th

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SURGERY OF THE NERVOUS SYSTEM

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EDITOR S COMMENT

MONG the rournals devoted to the surgical specialties those devoted to diseases of the eye and of the ear nose and throat are The monthly naturally the most numerous American Journal of Ophthalmology edited by Edward Jackson and Charence Loeb contains in addition to original articles, reports of proceedings of the various ophthalmological societies of the country and abstracts of important articles from other yournals A belieful feature for the busy reader is a brief abstract at the beginning of each orangel article indicating its character and scope Oakikalmic Literature a quarterly journal also edited by Edward Jackson with the assistance of W C Finned contains, under various clinical and anatomical groupings such cornea and actera etc riancoma. bruf but comprehensive survey of ophthalmolog cal literature from our own and foreign countries

The bimonthly Archives of Ophthalmology edited by Arnold Knapp, Carl Hess, and Ward Holden, specializes in original papers on ophthalmological subjects and contains, in addition, the contains of the contain

reports of society proceeding and reports on the progress of ophthalmology

The quarterly A sails of Oxfory Rinsalety and Laryngolety enited by H W Look is our largest and most pretentious sournal decorate to these specialities. It consists almost entirely of excellent original articles, and contains also reports of proceedings of societies.

The monthly Laryngoreau edited by M. A. Goldstein and A. M. Alden is also devoted to the publication of original articles and of the proceedings of the New York Academy of

Medicine

For orthopeic surgery the quarterly Journal of Bose and Josef Sorger, edited by E of Brackett of Boston and H. Platt of Manchester, England, serve most adminstly the function of a journal deviced to a special field of surgery lack number contains in addition to a self-switten and well illustrated original stricks an extensive saturated current orthopeids the traiture

The monthly Jeaned of Unitery edited by a board of five American unologists, serves a smaller function for the specialty of unology. The monthly Jeaned (Onterior and Gracology, edited by George W. Kommak, forms the three days that which represent the best of the special poursals. These three journals, the Jeaned of Breas and Jean Surgery the Jeaned of United States of Onterland Control of Children and Gracology.

sistently maintain a high standard of literary and scientific excellence which is a credit to American Survey

source monthly pourals, the American Jennal of Receippening and Resime Theory; edited by H. M. Monders and the Jennal of Residency entered by Abert I Typer are devoted to the specialities named. They are both printed on fine paper beauthoffly illustrated and present very aby the rapid progress that is constantly being more in mentersonour and radiology.

In addition to the journals already mentioned there is a large group of borderline journals? which are of less direct interest to the surgeon, but whose pages frequently contain subjects of practical importance and surplicance to the

surgical profession

The Journal of Experimental Medicas the Journal of Concert Research the Assertion Journal of Physiology the Journal of Physiology the Journal of Physiology and Experimental Theorpeat of the Journal of Assertions the Journal of Assertions the Journal of Assertions the Assertal of Assertions the International Journal of Orthodonius and Deutle Consent to mention only the more important ones, are carefully scrutinized each month in order that articles of importance and Interest therein may be brought to the attention of the readen of the Assertion.

IT is unnecessary for us to call attention to Dr. Characher's excellent review on the subject of persentenal sympathetomy. The extensive revival of this procedure stimulated by the necessity of securing more effective results in the treatment of unhealed gunshot wounds, is of interest to every surgeon.

The number of shistracts of especial importance in this month's yournal is so extensive that it is hardly possible to do more than mention them

in besting

Genesion a discussion of the mechanical processes in concission and continuon of the beam (p. 22) is of timely interest in these days when the speeding motor car is taking its dealy told in skull fractures. Genesions amon and logical conclusions are in rather marked contrast to the familial themses that obscure the discussion of

brain injury in many of our terthools.

In connection with the subject of peptic ulcer two reports of experimental work should be mentioned. Sweet and his collaborators (p. 337) discuss the pathogeness of peptic ulcer in con-

nection with the results obtained from several different experimental survicul procedures. Mann and Williamson (p. 218) report the experimental production of definite chronic, indurated picers by diverting the biliary pancreatic, and duodenal secretion into the fleum and rendering the upper part of the small intestme acid in reaction

Speed's cfinited tack of appendicates in children (p. 145) and the article by Finkehtein and Rohr on the treatment of tuberculosis of the peritoneum in children (p. 211) touch closely two of the most common abdominal desorders of childhood

Long a discussion of the value of enterestomy in intestinal obstruction (p. 242) naturely remind er of the importance of this life-saling operation.

Muller's careful description of a case of arephenamin inpudce (p. 246) calls attention to the possibility of mistaking this type of it relice

for obstructive fauncice

A number of excellent articles in the month have are of particular interest to the gypecologist and obstetrician Curtis discussion of the management of the bladder after operation and during pregnancy (p 251) Maxwell a résumé of the results of radium treatment in various pathological conditions (p. 252) Brady a study of filts cases of ectopic pregnancy operated upon at the Johns Hopkins Hospital (p. 251) Strogapoff description of his method of treating ediamous based on an experience of 230 cases in Petrograd (p. 254). need only to be mentioned to be appreciated Raldwin discussion of the indications for and

results of surpocal treatment of certain types of puerperal infection (p. 258) and Watson a resmi of the pathology and general management of poerperal infection (p 257) are beinful and my gestive. Dale call attention to the wide variation and the uncertain content of ergot perparations (p 201) and Polal contributes a peactical and complete discussion of the management of dihbər (p 206)

In the field of genito-unnur, surgery Thomas extensive abstract of Young a scholarly article or penneal prostatectomy based on an expensive of 1,049 cases (p. 167) forms a notable contribution Thomson II after in a discussion of pselographs (P. 262) emphasizes the important and essential steps in securing clear-cut pychograms without injury to the patient, and in interpreting the

situdous obtained Romer description of his method of treatme fractured clavacle (p. 271) based on a long or penene as attending surgeon to the Jockey Clab Robertson a and Box d'a discussion of the treat ment of the towns in extensive superficial burns in children (p. 286). Unger's experiences with translusion from immunized donors (p. 177) and the experimental work of Balley and Bags on the effect of irraduction on letal development (p. 250) suggest how interesting and varied are the subsects with which the progress; see geon is consta tly confronted. Simply to read the titles of such papers is sufficient to stimulate him with a new and real interest in his profesword work

INTERNATIONAL ABSTRACT OF SURGERY

SEPTEMBER 1923

COLLECTIVE REVIEW

PERI-ARTERIAL SYMPATHECTOMS

By PRI DERICK CHRISTOPHER, V.D. CINCAGO

Sanatast Surgers & Lake Hospital James Surgers, Branston Hospital Associates in Surgery University of Chinas Markeyl School

DERI-arterul sympathectom: n a term applied by Réné Lenche (17) of Lyons France to the surgical removal of the 5:m puthetic fibers attaited in the wall of an artery lie has surgicated the performance of this operation in visiomotor and trophic disturbances of the region supplied by the artery.

The operation was first given promisence by Lenche (37) in (3) but he gives the credit for his research to his teacher Jaboulay who in 889 performed the operation on the femoral artery with curature results in cases of perforat

mg ulcer of the foot

AMATOMICAL AND PHYMOLOGICAL BAMES OF THE THEORY OF THE OPERATION

A relationship between the 33 mentheric ner our system and the blood caseb has been recognized since 1851 when Claude Bernard (8) made the discort system the beauth of the same side of the same side become en our in the neck of a rabbet, the blood visation in the car of the same side become en much disted. Later Bernard and other observer demonstrated that if the perspheral end of the several new is unusualed electrically the ear becomes blanched, owing to a construction of the blood visatio. Since this time our knowledge of the anatomy and physiology of these fibers has been greatly increased.

The sympathetic autonomic system is one of the four great divisions of the autonomic system, and its fibers supply the extremities. The cord cells of the sympathetic section of the autonomic system lie in that portion of the sound

cord from the first thoracse to the second or third lumber seements, inclusive.

The visconstrictor nerve fibers belong to the sympathetic successive from the fiber price of a pregnangionic fiber arising in the circles of a pregnangionic fiber arising from the cell of some sympathetic ganglion. The sympathetic fibers which run to the circles arise from the paravertebral or latteral sympathetic chiefs which run to the arise from the paravertebral or latteral sympathetic chain of gangliar, while the fiber to the viscers emanate from the pre-critebral or collateral symmethetic a stern of careful series.

The post-gangbonic fibers return to the spinal perves and are incorporated in them. The ter minations of these post-ganglionic fibers are in the media of the vessel walls, but there has been some dispute as to their path in arriving at this destination. It has been commonly believed that some of the sympathetic fibers make their way to the pemphery along the sheaths of the arteries, though definite proof of this is lacking, may e in the case of the fibers which are sent by the sympa thetac system directly to the aorta and appear to spread some distance down the larger arteries In 19 3 Todd stated that the sympathetic nerves to the vessels do not pass along the main vessel sheaths. He contended that the vessels of the imbe are supplied directly from the various nerve trunks and that vascular nerves do not pass distally as a peri arterial plexits which provides branches for the coats of the vessels. In 1914, Kramer and Todd (13) studied this subject in the vessels of the arm. A pertual summary of their work is as follows

1 The subchavan and audiary arteries differ from other arteries of the arm in receiving a nerve supply direct from the sympathetic chain.

a All other arteries in the upper limb obtain their perve supply from sympathetic filaments which have traveled along the spinal perves and are distributed (the various blood vessels at tregular Intervals

3. The distal and peripheral vessels, more particularly those of the hand, receive nerve hlaments at more frequent intervals than do the

proximal channels.

4 The distribution of nerves to essels corresponds roughly with the distribution of nerves to muscles and skin

 The fact that the subclavian trunk derives its nerve supply directly from the sympathetic chain accounts for its escape from involvement in the lesion associated with the condition known

as cervical nb

In 1914, Potts (77) poblished a study of the distribution of nexes of the arteries of the distribution of nexes of the arteries of the Gle He stated that local damage to a large artery of damage only and will not account for changes produced in the vasel at a distance from the inforced site. He maintained sho that if absolute proof can be obtained of the relation between damage to the sympathetic supply of an artery and morphological changes in the casel cled of more than local character the nerve damage must occur at some distance from the arterial tree and not sumply to the sympathetic plexus as at the so of the vessel.

Lerothe presents endence which is difficult to reconcile with these observations. After detector cating the vewel for a datance of 8 to a centimeters, and thus injuring the sympathetic fibers at this afte be finds not only a mutical local construction of the vessel but also an elevation of surface temperature of from a to 3 degrees over those parts dutal to the sympathectomy which persuits for about fifteen days, and an elevation of the systodic pressure which may be as groot of the systodic pressure which may be as groot

as a centumeters of mercury

The reaction of another loss with hyperthemia was noted in a case proported by Halatted (1). Here, after excusion of a left subclax an anoman, the hand and forestim became appreciably warner than that on the nonth-side this persating for several weeks Callander (16) citics a case observed by Bishnakis and Heits in shich quadruple legation and erosion of the six was performed for the cure of an articon enous aneurom of the sulliviry artery. In this case the forestim and based of the seds operated upon were much

warmer four months after the operation that those of the sound side. These to care my possibly be correlated with the observation of Krauser and Todd (33) that the subchavan ard axillary versels differ from other attents of the arm in receiving a nerve supply direct from the sympathetic chain.

Callander (16) in his spienched contribution to the subject, from which quotations are frechtaken was able to verify the reaction of visible arterial contraction at the size of the sympather tomy but noted the reaction of secretarion but one case and the reaction of increased periph-

eral blood pressure in none.

Callunder says that Lernche designates there sarieties of traupus which result in distribute of the visionsortor balance of the extremities and are the cause of certain definite clinical pottors. The first is an injury to the spend norte filter in the trawe of the extremities, not necessarily in the immediate scientify of the ensels or norte. Traumatic ventration of these ensury filters or

cy impulses which travel to the gauginest and medulity; occurren, causing a refer accounts too of perhaps the whole extremity. In the second vascrossistence is said to arbe, not by refer action but by direct injury to the effects any mathetic filters in the Lenche believe law the arteries with a pen-attental network. When these are transmissed, juristicate but not destroyed, these owners and convey stronger impulses as the pemplery than normal, that accurage a few permetry, than normal, that accurage a few permetry, than normal, that accurage a few permetry, the conversations of the visions adestructive. The clearnest on of the visions are consistent or element, which Lenche thinks predominates, results in a paralytic vascolistics and hyperthermal.

Thus it may be seen residily from the megined aneity of lexions and the amount of possible inj ry to the arrier, and nerve, that there may result all gradations from hypertherms to hypothermax in every case it may be noted that there is a tendency for the normal thermal

equilibrium to be established.

I chiman (36) has made careful attempts to enily. Lenche's observations on dogs and con-

erify Lenches observations on dogs and concludes as follows

The perivascular sympathectomy of

Lenche does not result experimentally in the dog in the physiological changes in the extremities described by him in chinical cases

2 Vasodiation resulting from proved total sympathectomy does not affect wound bearing. After expenimenting with the rabbit, cat, and dog. Lenche (50) concludes that performance sympathectomy is to be studied only in man.

TECHNIOUS

A good description of Leriche's technique for the performance of perf-arterial sympathectomy may be found in a translation from the French

by Halsted (27) In order to achieve a pen arterial sympathec tom it is pecessary to uncover the arter, by the classoc procedure open the cellular sheath with the bistoury separate the arters for 8 to to cm get hold of the inner sheath directly on the versel wall, more it, pull one of the line thus made with a forcers, free it either with a bistoury or a th the grooved probe completely stripring the artery to decorticate a fold of all the cellular trame that adheres to it. More or less early according to the cases, one is able thus to trip the artery to decorticate a fold thin to be sure but often thicker than one might expect. At a certain moment one has the impression that one is going t tear the wall of the artery but if one proceeds gently and carefully guided by the point of the bustours or probe the freeing process can be carried on without risk of injuring the court

Only twore has I had the annovance of make ing a small tear in the artery the accident wa without serious results. In case of necessity one would frankly resect the segment of the tea and the the two ends, accomplishing thus by the same act a complete symmathectomy. Somet mes the forcers removes only rather hort cellular fragments, at other times one removes omite definite lamine and the movement of freeing recalls, on a small scale the subserous decorts cation of an inflamed appendix, but one never succeeds in removing a continuous layer it is necessary to repeat the attempt several times and with perseverance to catch the sheath again. to remove thin meshes, and not t stop until one has really the feeling of having removed everything Moreover one can erriv what has been done by wetting the wound with a tampon scaled with ery warm serum the artery takes on then a whitzsh ppearance looks as though made of felt, and one sees very clearly whether there remains still some cellular debris more or less detached

In the course of the cellular decortication it is necessary to be careful t expose the collateral branches and guard against tearing them. This happens sometimes by using then a forcers and a heature of oo cateut on repairs this accident without injury to the artery. In addition to the tears, which cause a spurt of pure blood there may be coming from the tearing of the VERS VERSORIES

CLOCKE LEMENT

In a paper read before the American Surgical Association Leriche (46) stated that he had per formed peri-arterial sympathectomy maty-four times in eleven cases of causaleus or equivalent syndromes, two cases of painful stumps, nineteen cases of post traumatic contractures, four cases of extensive traumatic redema, one case of trophredema four cases of achientic sequelae one case of trophic sloughs on a stump ten cases of trophic sloughs after nerve sections, one case of a sore of the heel after medullary inpury one case of varicose eczema, one case of spasmodic meralisas, three cases in which an attempt was mad to modify tension of the cerebrospinal fluid two cases of jacksonian epilepsy one case of souter one case of intermittent claudication and one case of enthromelalms. His study of cases led him to believe that pen arteral sympathectomy is often very efficacious in painful phenomena, will influence hypertonic symptoms of muscular phenomena, and is very efficacious in trophic troubles which lead to picers. More recently (50) he stated that it has a place in the therapy of certain primary localized acleroderman, resistant pulmar Leratoses, certain alonecias, etc. and may be of use in dysfunction of the clands of internal secretion

The operation has been done by a large numher of surgeons for various conditions but the results ha e not been uniformly successful and have not agreed entirely with those reported by Lenche Matons (71) reported accidental perforation of the mecha during resection of the ed entities

Forestier (22) found the operation useful on the internal caroted in corneal ulcers due to innunes of the head, on the brachial artery in Raymond a disease on the hypogratic in Lituroris of the vulva and on the femoral artery in varicose ulcers. It is of value not only in angiospasms, but also for symptoms due to over activity of the vasodilators

Bruening and Forster (13) have reported a suc cessful pen arterul sympathectomy in the case of a noman of 45 years also had a severe vasomotor troples neurous incident to inflammation of the sheaths of the extensor tendons of the meht thumb.

With regard to causalgia, the testimony of Carter (17) who examined over 1,000 cases of injuries to the peripheral nerves is of great value The first case of causalgia was reported in 1813 by Denmark, but it was not until 1864 that Weir Mitchell (75) gave the first complete and chancel description

Causalgus (thermalgus) is an intensely poinful condition almost entirely limited to certain sensory areas of the distribution of the median and sciatic nerves caused by lesions of these perves at points more or less distant from the aress mentioned, and characterized by local vasomotor disturbances and general hypersensitiveness of the nervous system—a painful vasomotor neurods due to irritation of a mixed nerve

Peri-arterial sympathectomy is not of value in causalria. The fundamental lesion in this and allied conditions is an intraneural and perineural sclerods. The irritation thus set up in fibers at the site of injury to the new es causes percented afferent impulses to be sent back to the cord. and possibly to the subcortical and cortical centers. From here, efferent responses of vasodilator secretory and trophic natures are reflected to the purpheral distribution of the perce where reaction on the end-organs and sensors corpuscles in this area is interpreted as pain

The operative treatment of cau-algue is necrolysis, though the intraneural injection of 60 per cent alcohol as suggested by Birard and carned out by Lewis and Gatewood (7) has given very satisfactory results where neurolysis

alone may not have given relief

In the case reported by Habstead and Christopher (16) the improvement was very striking In this instance a diagnosis of endartentis obliter are had been made and the excrudating pain prevented alect) or walking more than balf a block at a time \ aned medical treatment was tried in vain. Ten months after pen arterial sympathectomy the patient was free from pain and on his feet almost continuously for twel e hours dealy in his work as a restaurant cashier Before the operation the leg was cold, but it now becomes warm when the patient is in bed

Callander reports ten arterial decortications, as he prefers to term them, on my patients. He charafied his cases into groups. In the first group, m which the arternal changes at the time of operation were thought to be spa-modic rather than obliterati e, there was no improvement after

the operation

In the second group in which an obliterative artenta seemed to play the predominant role there was one cure and two cases without im provement

In the third group, cases of unaccounted-for pain, there was imaccounted-for pain in the thumb Following the operation the pain disappeared, but another pain developed in the flexor group of muscles. The latter also ceased, however and there has been no recurrence

Straus (16 00) reported favorably on two cases before the Chicago Surgical Society in 1921

COACTOMIOAS

From the foregoing examination of the subject it may be seen that,

Persenterial sympathectomy has been of great belp in certain conditions which others is:

were perbapa hopeleas various observers have been anable to

erify certain of Leriche's clinical observations.

3 More recent discoveries of the anatomy and physiology of the sympathetic system make It very difficult to explain the clinical phenomena which Leriche has reported.

4. The subject is a very inviting field for further study and research.

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ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Herisberg, A and Pichler II. The Plantic Repulse of Skin Defect of the Jaw and Chin (Urber den Frasts on karler und hunds tidef kien). Arch (H. Chr. 9 creu 337

I the treatment of defects of the processed by traumant be operative removed of neoplasmant is imported to provide immediate relief by me is of a provisional sight to Later a plastic operation can be done which will render the prosthesis of

Welfest ma be repaired by plastic procedure to store from the autromating parts or by the form the autromating parts or by the rect times it too of bone beauted from the rect times in the bed. I be first method that the part of better to district the bed. I be first method that the best is taked it is did bed by pedde of muscle is emplored. I the removal of its fragment it is most that to did judy is the broad mouse membrane. Mere sufficient mobility too the fragment is did in a new bed here it is belt ingue by donet did gain and forevery by one or it. I we staters to from the four cetch the lower teeth are fastened it the upper in light res normalisment being it included by the the teeth removals.

This flap procedure used nativist (mes on as) to praisest (foor times bal terally). The re ult as defaurith somes ful to fifty to cases not pp treat us evided four I one case t was somewind on one side only and in first it.

tails. I the thors openion to of the fail esmust be it buted to chronic perheits high present before the operation.

here bone transplunt tion was employed in and more cases. The transplut to taken from

I can more cases. The transplat is taken from the rest of the alium of drea the tibar in fourteen ser cub. I from the ribin one case. Meri both stumps of the j. his been exposed and freshened pattern is not from thick been of lead which all reproduct the rive of the mainlars archand extend

f percevan on both fragments. A pickers of the first solution is then lade in the world of the first solution is then lade in the world of the first solution. The perce of lasers when some first he led pattern. The perce of lasers when some first solution is the first tendence of the first solution is the first solution. The first solution is the first solution of the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the first solution in the first solution is the first solution in the fir

teen er complet h cured three were benefited

moe remained uncured, and four died. As three of the deaths were probably due to the effects of the anasthetic, the operation should be performed under local reconduction anasthes. (possible

In cases 1 which bone transplantation cannot be carried out, permane t splint should be worn. The authors go e full directions for making such

and at

For the report of extensiv cutaneous defects of the chin the authors used to pedieded flap formed from the scalp each pediele of which contained t mporal actery. The bailress slim of the forche d as turned mand. The defect on the head was covered by Therech grafts. The method and the results of the operation are shown in cuts.

and the results of the operation are shown in cuts.

Of special importance in the treatment of these injuries is the co-operation of a dentist with surgical true great true great surgeon with dental truining.

EYE

I uedde W. II. The Sig. Beance of the Tuberculin Reaction and Other Problems I. Ocular Tuberculoul. 1st J. Ophib. 9.3. i, 6

Loede uses much smiller amounts of tuberculus the et employed (ormeth) has diagnoste doese begin is low as ooo mgm of old tuberculu. If it te that he tokes obsert tom focal ornizeration m be detected. Rarrly doe, he use more though my of old the breach for dignosting and seldom more than that amount of any tuberculus treatm at

T illustrat som of the problems he mentons number of ves he ha treated I the case of a boy there seemed t be an associated herefutar lies who have susceinspected until a nodedly kerstitus became one under treatment with tubercular tillustic t extreent was quickly followed by myocyments.

Ocular (berculous seems t be relati el) un common persons with pulmonary tuberculous and pulmonary t berculos a relati els uncorange

those with ords it beredous in the majoring person doosing a ford ords reaction there is ford a various at least 1 ords a reaction there is ford a various 1 critish the ford to reach the reach 1 ords in the fact the did not recently a ford the record of the ford the ford the ford the recently report of the record to the recently report of the record of the record

secretion late the mose as the soft palet, is refued and the spray is sent through the month Several cases of typical ocular tuberculous have been associated a th infections in the nosterior main chambers and tonells. Drainage of the anuses and

tonullectomy were followed by marked improvement or healing of the ocular condition without the use of tuberculin

Three explanations are m en

The nasophary need duesse may be the acti focus of tuberculous infection which causes the

ocular desease by diffusion of toxine The nasophary ageal disease may not be tuberculous, yet may act by lowering the resistance

of the ocular tunner t the infection a Il may deny that the focal reactions to test I sections of tubercula ha any di gaoatic sig

DESCRIPT

Luedde sent out a questionnaire to number of prominent patholograts and orbitalmolograts in terested in pathology to determine bethe the focal reaction of tuberculin was generally regarded today as having specific diagnostic importance There was some difference or openion. Luedde draws the following conclusions

 A focal ocular reaction caused by test unes. term of tubercrain renders the diagnoses of ocular inherculosis highly probable, but does not mak t

becautely positive

The therapeutic benefits obtained from the use of tubercular in ocula tuberculous must be recognized but can be explained rationally either as specific or a non specific effect

Climical experience demonstrates that the radical chapmation of focal infections, especially those of the mapphary nx, d the proper treatment of any coexisting constit tional disease will render loss frequent the indications for the use of tubercula miler as a distriction of therapeutic agent THOMAS D. MAPS, M.D. orhibalime practice

Hift, E. The Causes of Sitemporal Contraction of the \texast Field. Am J Ophia 913, 12, 57

The forty cases presented in this article call attention t the different forms of warl field im pairment as they ma occur in hypoprimtanym ith or thout convoluous, with pituitary head ache pitintary disturbance in relation to infection, hyperpatuatarism cerebral syphilis by drocephylus and tumors

Temporally contracted fields particularly in the apper quadrants, are usually found when the petuitury is colarged. Tendencies t bomonymous

nemianopsis are fairl frequent

The chincel symptoms and ugus of hyporumta num re discussed in detail and twenty seven cases in the series classed as hypopitant ry to asal red I nineteen the eyegrounds were sermal in three there was primary optic troph in another there was pallor of the temporal quadrants of the disc in two the discs ere hypersense ith blurred edges in one the discs were covered by expelit und

upper temporal alants in the sistal fields tourteen enlarged blind spots four an upper temporal quadrant defect for red in the field of one ere and four an upper temporal quadrant scotoral There was also fatemporal contraction as great above as below homonymous hemisacture, concreting the traction and tubular fields. Among the patent with hypopetuntarism, twelve suffered from wcurrent convalsions. Seven showed beliteral agen temporal contraction four unlateral moet temporal contraction and one tendency to homogymen hemianopaia. The type of pitmiary headache the deep bitemporal pun described by Pardee Temporal contraction of the visual referred t fields should be a regular finding in these cases Careful perimetry with the use of small test object will reveal upper temporal stants buch are missed

in one there were choked discs. Sixters care should

m camal charting of the fields In three hyperpatuntary cuses the fields showed evidences of pressure upon the cluster. In cerebral avplishs betemporal limitation is the most frequent

form of must held defect. This was present in both of the thor't cares

Two cases of hydrocenhrius illustrat the effect of this condition upon the optic chiases. The feldiffered from the most common fields of petuliar enlargement in that the poner temporal quadrants ere no more contracted than the lower Another case in this group showed betemporal contraction which at times was greater in the upper quadrant

The six cases of tumor all showed fields charac terratic of pressure upon the change. One wa erafied by operation and the others improved under

treatment

I conclusion, the thor emphasizes the peculiar distribution of the visual fibers in the latter and in the tract beyond high llow characteristic changes us the field of mon More attention should be given to perimetry a the earl digitions of sluthter disorders at ted the remon of the chusm and also those remot therefrom lack xert accordary effect, through the intervention of hydrocephalus. The use of senall test objects a arged as the n 1 independs toward betemporal bernanopus A B I AM

Ament \1 \1 Area roots and Ambiyopia Produced by Quintre Linauroen de 1000 ambboy la del ordente brocks silv be (puseus

las ino

The withor brings out the following points Ommore is one of the good important drug-CREVING ARRESTORS OF TROPS OPEN

The condition occurs usually feer the sel ministration of moderat doses 6 8 em) over period of day

3 Of the ne er preparations optochus has caused man uses this probabl being due t unproper preparation of Lundardisation

The occular magnession is possibly (applie hater During he sout stare haten he pa proved by treatment. Usually there is permanent

assume to use ourse server.

3. The treatment is pennant; peophylactic samely the education of the methical profession as a whole as to the methical of administering quantic said as to the producenal symptoms of oculir toment. The citive treatment coessis in the administration of visiodializing druga—mitrosi) cena mintes followed by gradually increased hypolenuc doses of

strictime. The sulfor reports case of mulara in high the outstanding feature was the fundus pacture in the felt op which show eat mixthed pallor of the popular with blurred margins and I ree paracentral and orient pagaling rows of rutinal pullor extending almost to the mixture of the peripheral retina. Second of the retinal pullor the pacture somes hat resembled that of embolum of the central retinal artery. The media of the right cys was so fogged that even red reflex could not be obtuined. But the condition improved considerably under treatment with assolidating drugs and trichinum but per magent trophy of the discr remained.

FEA IN P SCHOOLS, VID

Williamson, R. T. The Recognition of Hemianopsia in General Practics, and Its Diagnostic Importance Practisems 9 1 276

Williamson drocates determining the field of soon in all cases of cerebral flections. I adden meet lie many cuts cerebral flections I adden meet he many cuts cerebral flections as good hampletta do not poter and the symptoms has been attributed to other than focal branc henors. If the fields of vision are determined, definit hemianopus may be received.

Three cases are reported in which hemiscopius was present hen so other locahung) mptom was found and the patient did not complian of any defect in vision. The sodden presentace of excellent symptoms was followed by popurintly precovery; but the hemiscopius remained to show the location and the nature of the lemon.

In the acute cases the hemisiopsis is due to softening in the repoot of the posterior cerebral artery following embolism or thromboss. I the chrosic cases it is due to tumor abaces, basil meningins, etc. Vision Wistorry VID

Vosber H P The Combined Intranseal and External Oriention on the Lachrymal Sac Monher Tott. A Own Rivael of Largest 9 3 Saver W E Dacryothinacratotomy. Communications

Sauer W E Dacryorhinecratotomy; Combined Methods 1 Ord Ricad & Laryage 9 3 xxxxx 5

Mosher makes attruight itunion at about the main edge of the hackground are chear down a to the bone, and life to be from its bed. On consist of the throates of the lathrymal bone in the posterior portion of the bed and the thickness of the sacesd portion of the bed and the thickness of the sacesd egg process of the manifal in the anterior portion of the bed he plumpers probe through the thin of the bed he plumpers probe through the thin

portion and then enlarges this opening from eliber the avail or the occlar ride. Before this Is done he removes the auterior portion of the middle I if binate and corrects any destation of the septimes which may be present. Consequently he performs in operations, allowing the cound of the farmed heal before performing the second. At other choice, the second contrained the artifact of the contraining and duct completed as far days already choice and auteres the narries all of the story mile, as distincts the antient make did not be sufficient as the narries and contrained to the contraining the period of the said operating. He are codes of the narries are sufficient to the codes of the contraining the said operating. He then closes

Mother claims this operation can be done on the simplest or the most complicated cases of lachry and obstruction or disease and that practically all of it can be done with good exposure. His results in seventy case, which smooth the unusually recoded.

be in es in tabular form

Sauer emphasizes the fact that the an tomy of the region is not also as constant that in some cases the middle turbinate lies or r the position of the lachry mal src, in others is anterior and in still others in posterior to this position. It introduces

Zegèr probe through the lower cambedine and prases it into the none low down, from the bed of the Indirymal sac. He thus outlines definitely the portion he washest enlarge. To effect the enlarge ment he uses bour from the naval side removant he untersor each of the models turbinate and the the untersor each of the models turbinate and the states that he has obtuned ere poof results sat states that he has obtuned ere poof results such dismin it is in method as more susple favo other described. It cannot be used, however in complicated cases of as sufficiency.

The article contains cuts illustrating both of these operations Thomas D Allin, M D

Chance, B The Eriology of Uncitie Am J Ophile 9 3, 71, s84

Usetta is an endopathalama, ethe primary hen the original are of the deserta in the ris or chary body, or secondary when the original are of the deserta in the ris or clarity body to secondary when a few properties of company and the secondary to the secondary to the secondary to the secondary body. It is often in either compensor or endogenous. Although some cases must be to on selected non-bacterial, the condition is usually dependent ages an uncro-organisms or their tours. The posson is probably present as the approach the probability of the secondary of the

I the experience of the "above choice strains of this is run as the fart fifter next of the and the action of chairs in the same the strains of the same of the sa



incinded chronic sphenouthus, ethnoudus complicated by sphenouthus, infection I the attra, and pusamousts. The case in the acut stage were all cases of retrobulbar neumbs showing normal fundthe operative results in three cases are accellent Otthe cases in the trophics if g. per cent showed a peture of punning a strophy of the pupilomacular bundle and the rest aboved evidence of preceding inflammation around the neric head

There were ten cases in which brain tumors were responsible for the disorder in four a tumor of the terrebellopontule angle in two a hypophysical tumor in two, a tumor of the cerebrum, in one tumor of the floor of the fourth entricle and in

one, prechasmal tumor of the left optic nerv There ere five cases in which multiple sclerosis

appeared to be the causative factor

Of ten cases of tone ambly opan two were due to ethyl skookol and the rest to methyl skrobol. I'm of the patents heaved in the atrophic stage showed the pacture of trophy of the popullomacular hundle. Four showed primary optic trophy and one in the cuts stage showed an optic neuntin

There ere t els cases in which definite diag none could not be mad. I we showed prim to optic strophy four a secondary trophy and three an atrophy localized especially in the papellomicula

pangles

In the authors openion a seems cler that the type of optic neer disturbance caused by arms, desease is generally rather definit claimed entity. The petture constantly observed is that of retrobulliar serv disturbance diminished vision, the defect being in the central field own affeld out lanes, and normal fundi. Their studies indicate that inflammation and elevation of the optic disturbance be an exception rather than the rule in disorders of the order here, caused by some disease.

ABDYKNA VID

EAR

Kamdsen, V. O. and Shambangh, G. E. The Sensibility of Pathological Ears t. Small Differences of Londones and Pitch, Including Report on Seven Cauco of Diplocuois. Lary. press v. 0, 2 2022. 353

This is preliminarly report on research on the senability of the ear to small differences of londness and pitch, and is not presented as practical additional and in the diagnosis or treatment of ear conditions, although this will probably decleop later and principally along the lines of improvement in histing deports

The student pears out that to presents a student last for bearing intelligently it is essential it knot the semidulity of the ear't small differences of londines and justin, more the interpretation of speech and muscal sounds required this expectly if the pitch the student semigroup of the present pears and the student semigroup of the pears of the semigroup of the pears of the pears of the semigroup of the pears of the semigroup of the semigro

The method of just discernable differences in loudness and pitch is employed. The source of sound used in a telephone receiver actuated by energy from a vacuum tube oscillator producing tooses be t cen jo and so coo d.v. The circuit is so designed that the tone cuitted will fluctuate abruptly from a tone of one loodness t a tone of greater or less loudness of equal duration at site of so per minute.

If the difference 1 loudness of the t topes is greater than the smallest perceptible difference for the ear under test, the two tones will be heard as if ther tone otherwise they will be heard as a stead

tone
A similar procedure is used for patch except that
the frequency instead of the intensity of tone is

made to fleefuste alternately It was found that the normal ear can perceive smaller percentages of change in loudness for moderate and loud tonces—a difference in about to per cent or 400 gradutions of loudness for tones of medium patch—than for low foces. The semablity to small differences of loudness depends on the patch but the rerapy curve for amorter ears inducted that sensibility to loudness us almost independent of the patch over the rarge used in speech and music Average curves showed that for higher tones the normal ear can perceive adilerance of pitch corresponding to one twinterth of a semitone or about one graduations of patch within the audible range.

I series of pathologic ears affected by various types of fination dealuris, nervs degeneration, or deplacesis and combinations, the results indicated that these processes do not greatly affect the pitchand tensity-differentiating mechanicus

STREET A SCHOTTER, M D

Bridgett, F The Determination of the Line of the Descending Portion of the Factal Canal in Doing the Mastold Operation. Largement

9 3 Min, 319.

On the bass of series of specimens of macerated temporal bones, the uthor points out the established landmarks rur. (1) the supermental traingle, (2) the lines temporalis, (3) the posterosupersor will of the mestin, and (4) the bulging on the inner will of the masted cas. by produced by the signoid grown.

In the curretted and cleaned out mattold cavity, the operator does not he as well entablebed hand mark corresponding to the descending portion of the approach and the post 1 th these approaches indique below the post 1 th these times to the inner wall of the antirum to its termina too at the six forested forence. The author post to out that the digastric forence may be and forence when the contract of the masted during his move dead the collear structure cemetrated there a major corresponding to the digastric grows the six of the masted process literally the digastric of the masted process literally the digastric master of the masted process literally the digastric master of the masted process literally the digastric master of the masted forence.

This point in the masterd cavity at the functure of the ridge with the posterior wall of the external anditory canal, which corresponds to the stylo-mastoid foremen externally the author calls the infer mastoid juncture. A line connecting this functure with the inner wall of the a trum maps out the famul canal PRANCIN P SCHOOLS M.D.

Friedman, J and Greenfield, S J Primary Thrumbods of the Masteld Emissary vein with Secondary Inversement of the Lauren Sinus. Lery rescape o 1 mmn 147

After reviewing briefly the gross and topographicul anatomy of the masterd emmery veins, the authors ducuss the mode of infection of these verns Secondary involvement is not uncommon and usually follows suppuration of the post uncular glands, involvement of posterior groups of mastoid cells, or thrombous of the lateral same In dis cusing primary in olvement of the emissive the authors refer to infection of this structure a th accordary involvement of the lateral times, although the emissive was injected accordantly to masterd its. They report case of the character A complete symple mustosdectomy ass performed. The lateral sinus was found normal. The thrombon in the emissary vem was traced as far as the lateral siams. The vern was left undisturbed t the primary operation

The temperature, pulse, and blood count were rather characteristic of existence infection although blood cultures were sterile. The condition became more serious until the jugular vein was ligated, the lateral slove was opened, and the thromboard emmary had sloughed way Recovery was un eventful except for a transpent acute perbints which STREET, A SCHOOL M.D. cleared up

HOSE

Syrne W S. Need Accessory Since Desert and Systemic Injection, Protisseer 9 LCL 351

Syme arges examinations of the accessory sinuses when a search is made for focus of infection and cates several cases in which removal of the infection cleared up the general trouble. The most frequent symptoms produced by the sinus infection are nasal catarrh, post nasal dropping and frequent head cokis. The only method of proving that the antrum is not the focus of infection is pericture and is se In negative cases no secretion except possibly when trace of mucus is obtained. Antrem disease may occur t any age O M ROTT M D

Lawle, F.O. The Radical Frontal Sinus Operation, tts Report of Cases inn Old Rhead & Laryaged o 3, stree, pos

The uthor believes that in a large percentage of cases in which there is chrome supportative process of the frontal same the ratheral operation is the method giving greatest assurance of permanent rehel from such distressing symptom, as recurring or per

sistent pain and headaches, purplent passi and new nasal checharge, alarming vertigo, sestro laterimi lemons, and focal infections. In cases, 1th entered fixtule intracramal complications, extremely large senures (often with septal drymous) boss necross severe orbital complications, and unsuccessful jutra nasal operations the radical procedure is the only sethed of treatment

By the radical operation the author means the Kellium procedure or one of its many shelt modeca tions. By this method of anoroach it is possible to visualize the entire field of operation and ta deter mine the contents of the mans. Less has lettle faith in the intranssal method, even is untable

This article is based on a series of forty cases A considerable number of them are reported in detail

Emphasis is placed on the importance of the past operative treatment and the correction of any marked deformity which may be present after the cocratica A R HOLLEWES, M.D.

Skillern, R. H. The End-Results of Redical Costs tions on the Accessory Sinuses. Are Old Rainel & Larraged of 3, 2223, 30

By radical operation is meant as operation performed th the single purpose of giving absolute rehel from symptoms with a more or less perfect cure, regardless of the seventy or extent of the surpcal procedure

The sequela of radical operations on the fractal smus m y be (1) persutence of pain () bend to eathers of the brow and scalo (1) persatence of discharge (4) peuraleu about the contre, (5)

diplopus or (6) epuphors

Radical operations on the manifest sizes are seldom followed by unpleasant after-effects. Such after effects are () amenthesia of the upper in and teeth on the side operated upon. () permanent fistula into the mouth (1) excessive dryness of the some on the affected pole and (4) the gradual return of the discharge after an apparent cure Important sequelse to the spheroid sixes are

() gradual closure of the opening before the subpuration has eased and () re infection with rater mittent suppuration

Radical operations on the ethnoed labyrinth mer be followed b () the continuence of the dech rige () the continuance of the pain (1) par tial occlusion of the nostral, or (4) ocular symptoms which were not present previous t the operation The uthor believes that in cases of discuss of

the thrond labyrinth it is best not t try to effect cure in one operation, and that the middle turbanets should be removed in preliminary operation to allow better aeration and drainage and a mercareful study of the labyrinth. In conclusion to states that we should remember that experience has taught that radical operations open the accessory sinuses do not alway mean radical cures

W B. STARE, M D

MOUTH

William, N., Goadbr. K. H. ter N., Herr. W. and Others A Discussion on Deutal Serals an Etiological I ctor in Durant of Other Octana Free F

Sect Colont 1

The extraction of teeth thout proper indications is t be strongly condemned. On the ther hand, the preservation of teeth which are foci of infection eads to impairment of h alth and disease of other

The organisms commonly found in dental in fertions are staphylococci and treptococci The streptococci are usually classified in three prouts the hamolytic group the vinitans group.

ndifferent emm

Dental series may be secondary to some other dueste or torremia. An excellent illustration of this is scurry in which marked dental serious is one of the earliest symptoms and diet rich in antiscurbutic vitamins kads t trind improvement and perhana to the desconstance of the dental series

In infections of the teeth and goins the focus of infection should be temo ed by extraction or surt ble treatment. It should be remembered also that ery frequently intestinal infiction results from dental miection, and that this may require treat ment by such methods as irrigation of the colon or the use of a togenous accune

IANTA C REASSETT M D

Paterson, II J. A Not. on the Overative Treat ment of Mallenant Disease, with Special Reference t the Tongue Laurel o Lour et

A mahenant growth goronda peripherally by in amon of the surrounding tissues and distally by permeation of the lymphatic system. In many cases in which an incomplete resection as done and in vaded lymph glands were left, the patient h ed for ten to t elvo years and in some apparent recovery resulted. The brough a stem is the body' defense gauget the spread of the disease and to a limited stent is able t deal with these cells

If the surgeon were certain t remove the entire growth a thout leaving any cells it would be correct t remov all hymnh stands involved, but when these glands are gone, an caster cells remaining in the ound will find their way to more distant glands beyond the reach of survey If the glands drawing the field are left t act as scavengers, they may arrest the spread of any cells remaining in the sound and may then he removed before any cells within them can spread t more distant remons

The author's method concerts in the removal of the growth with cautery followed by a secondary desection of the glands from three to four weeks later He reports five cases of carcinoma of the tongue treated in this manner. Four of the patients are alive and free from recurrence after of seven years. The fifth cannot be traced

MILLIAN J PRESENT VID

Sare o Literat. 68 male \ P Rengla To types of mucoid evats occur in and about the floor of the mouth

Rel thely small rare cysts which originate from amore mucops or anhenecous elands he in or met under the mucous of the floor of the mouth or under the surface of the tongu and tend to proten to into the month. Complete removal of these is summile procedure

The more common type of ranala which lies in the floor under the mucusa and submucous themes and butto a so that the amount discernible thin the month does not indicate the true extent of the condition. Complete removal may be difficult

or surrently impracticable

The a ther does not accept the commonly held ties, that the cause of rapula is an obstruction cost of the sublineural stand. Obstruction of the submarill radget or dil tion of Flelschmann horse seems tall more unreasonable as an explanation He believes a th Thommon that deep ranula and rel t dicasts have their openn as marrated portlops of the cervical signs. This hypothesis will explain all hithert observed t neasuch for example, as that which extends up t the base of the skull as a para datance to the neck or submental region

Champeon calls attention to the impracticability of removing the purif ucual extension of the even hen the closely adherent to the base of the shall and the styloid process. Sample incision and cauterirecommends transplar lacision and suturing of the trangular fi p do toto the bursa to form a termanent dramage fistula. Blab supersta muor a quadrilateral flap from the mucosa of the cheek to establish permanent dramage from an unremovable portion of parel usual extensio cost
Walter C Breaker, M D

THROAT

Same N S Sortical Disthermy i the Treat ment of Malignant Discuse of the Throat C PANJOL

ther reports the results in sixteen cases of

malignant disease of the throat tree ted in the past years by surgical dratherm) but of these cases ere presented t the meeting of the Royal Medico Chirurgical Society of Glasgon. Of these sly, four ere referred as moperable and to were early cases of epithelioms of the tonell and fauces. In one of the four monerable cases, with malignant growth involving the upper and lower is a the angle bet een the fasces, the tongue, and the side of the phary ax, there was a large glandular awelling in the anterior triungle. The primary growth removed by surgical diathermy in June 1922 In February 923, the glandular enlargment had de creased to the size of a small egg. It as then removed Microscopic exumination showed very good thempt toure. Most of the gland had

become co verted int dense fibrous trause which was crowding upon the few cell rests which remamed. In two cases operated upon nine and right months previously there has been no recurrence to date. The there were operated upon four and five weeks previously

I several cases in which cure was out of the question great relief was obtained by the use of

disthermy

The author remarks particularly on the absence of shock and severe pain following operation and the rapid recovery even after the removal of extensive gros the SCHOOL L. Know M.D.

New G B Latyngeal Paralysis Associated with the Jugalar Foramen Syndrome and Other Syndrames. Am J M Sc pay chry y y

The author reviews the hierature on complete umlateral paralysis of the recurrent lary persal perve associated with the regular foremen syndrome and other syndromes, and reports seven cases observed in the May Clinic He boants out that there is difference in the nomenclature for the internal branch of the eleventh nerv which in the United States is classified as part of the tenth nerve, and gives a table showing the affects of paralyais of the Оррепвен

The a thor' first case was a case I paralysis of the right tentk, eleventh, and t elfth cramal perves dne probably t neotilesm in the remon of the regular foramen In the second case, the night third. fourth, fifth much, seventh, much, teath, eleventh and twelfth nerves ere affected because of the extension of an epathenoma in the region of the purpler foremen and possibly it intracressal extension. In the third case, the last four cramal nerves and the cervical sympathetic nerve ere iffected by what was probably lymphosarroms of the night aid of the nasopharynz and the pharynx. In the fourth case the much, tenth, leventh, and twelith tramel nerves were flected by an extension of a mixed cell carcinoma i the perotid region t the jugular foramen remon. In the fifth case, the math, tenth, and t elith nerves were affected by mused tumor in the region of the jugula foramen, and it seemed possible that the cervical sympathetic was partially myohed In the auth case the third, fourth, fifth surth math, tenth, and t eifth cranial nerves, and probably the cervical sympathetics, were involved by a rapadly gro ing nasophary ageal tumor which was probably lymphosarroma Desiness on the right ande as due probably to encroachment on the enstachtan t be. The seventh case appeared t be

mixed tumor of the pagular foramen region in volving the last four crassal nerves on the right

In the discussion the author points out that in six of the seven cases in the series there was complet amilateral laryngent paralysis with the affected ocal cord in the intermediate or cadavanc poutson rather than in the midline position usually taken by it

after an injury t the recurrent laryogral serve Is some of the cases the lavoltement of the crami nerves was very extensive, probably because of extensions of the growth (buth may or may no have been primary in the nesopheryex) into the orbit, intracramally, and int the region of the mutular foramon. The leason in all the cases, with possibly one exception, was a peopless; in the trees of the regular foramen originating in the panyar or nasopharynx Four of the tumors ere of slee growth and two of rapid growth and the duration of symptoms ranged from six weeks to tweb years Pathologically, carcinomata of the mixed-cell type, besal cell epithehomata, and lymphosarcousts are

represented
The ages of the patients ranged from 33 to 62 years. The sexus were affected about equally

It was noted that patients with paralysis of half of the tougue had trouble in swellowing house is those with paralysis of the palate, food became lodged back of the nose, and those with puralyse of the pharynx had difficulty in swallowing solds. Cardiac and respiratory disturbances occurred in only t cases Myons and narrowner of the palpebral fasure occurred in four cases became of un olvement of the cervical sympathetics

Moore, I. Operative Procedures to the Trestment of Stymouts of the Laryers Caused by Bilateral Paralysis of the Abductor Muscles, ith Special Reference to New Method by Means of Which It is Suggested that the Alreay May Be Per mountly Enlarged and the Patient Decem-minted. Free Rev See Med Lond., 625, 71 Sect Laryment :

After reviewing the amous operative procedures used in the treatment of stations of the laryer caused by bilateral paralysis of the abductor muscles, Moore describes new mathod—sateralateral transplantation of the ocal cord-which he calla cordonexy

The latter procedure as proposed by Trotter who surrested making an incision transversely across the middle of the thyroid cartilize, meeting retractor, obtaming good view of the anterior inaction of the cords, separating from the thyrod ale by carrular incision the portion of cartilage to which they are attached, and drawing the litter forward and laterally along the transverse incress through the thy road ala

Norking on the carlaver Moure found that the perouch to the laryax by transverse success not satisfactory because it is impossible to locate accurately the anterior insertions of the cords from the extense of the laryux and word cutting them. Moore suggests performing thyrofaure, exce-

trangular piece of cartilage (along with the attached cord) elevating the periosteurs in the vacanity of the released cord, and drawing the pace of cartilegs th the attached cord along horsontal moreon and anchoring it after punching out carcular perce of cartilege in which the cord can be

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS; AND CRANIAL HERVES

Genevain, F. The Mechanical Processes in Concussion and Contuction of the Brain (Denechaniches Vorgange bei der Gelinnenskierterung und der Gehnrakontesson). Beitr. H. Chir. o. 3. cc;Nii., 348.

On the assumption that the brain reacts t fluid, many writers mechanical influences like ttempt to explain cerebral concussion and conturion by hydrostatic and hydrodynamic law According t Genewein many circumstances ad observations speak against this conception every case of bullet wound of the brain one is struck by the disproportion between the caliber of the bullet track and that of the shot, the f rmer being much greater than the latter. In a through and through bullet wound of the brain, the immediate primary track, corresponding to the caliber of the bullet, is surrounded by a more or less extensive zone i necrotic bram substance the secondary track. The lumen of this secondary track is variable This necrous around the primary track is due to the fact that the entire mass of brain tosses corre stonding to the primary bullet track is pressed by the force of the shot into the surrounding timese the continuity of the latter being thereby ruptured If the speed of the bullet decreases within the brain the diameter I the necrotic some becomes cor s respondingly narrower. This is why the diameter

of of the secondary bullet tract is also yis distinctly least toward the end of the track. From these facts 5 Genewem concludes that the brain is compressable but that for its compressable but that to the compresson great force is necessary lao that t does not favor the transmission of mechanical energy.

In steh of dull injuries of the skull not creaning fracture Genese in always found nectors which bemanage i the sit of the blow ettended with varying thickness through the enture dumeter of the brain and in direct continuation of the trajectory. The same finding was made also in depressed rattures and pentirating woughd of the shull. An experience lightly heliests body about needless to the compressible simplify the direction of the shull be always and the continuation of the force wayding the continuation are in juried, those juig opposet the point of pipication of the force wayding above part it for recorpt.

Cerebral concession is due usually to the effect if sadden blow the force of which travels through the scan in structh line and in only one direction. This explains which entire brain is never affected.

by the trauma, and loss of consciousness, the symptom which could best be explained by the theory that the brain is a find, occurs only if the waves if force arading from the trauma priss through the

center of consciousness ther discusses briefly the In conclusio the nathologico anatomical findings in concuen n of the brun and comes t the view that a definite pathologic finding represents only the end of the pathologic process initiated by the traums. Every application of force to the brain is followed by infurto the nerve cells in a definite manner and direction, which requires certain time for its development and its microscopic demonstration. Therefore it follows that a negative pathologic finding in a case of brain inputy with distinct symptoms of concussion means nothing and that even macroscopic extravasation of blood is not presumptive evidence of traumatic bram disturbance. However it m ; be said with practical certainty that the bars of all disturbances caused by trauma is change in the nerve cells This holds true also for concussio of the brun, which is nothing more than the result of force. The factors responsible for contumon and concussion of the bram are the same. According to the patho losse findings the difference is only difference of degree cerebral hemotrhage means heavier blow Botton (Z)

Ritter A. Besin Injuries with Fredeminsting General Symptoms Their Late and Fereisting Results (De Gehravericinages mit Vorhernehen der Aligensunsymptoms ihre Spact und Dauer loigen) Denitité Eink f Cin 9 2, chry

In a study 1 the large accident enternal of the Dranch chine so far as a related to learnes of the bead the uthor found that those cases designated as concession of the brain make op very high per centage of bead injuries and still higher precentage of brain upines I the poor cucled cases treated during the last t enty years, 385 (per cent) of the later there is a man of the brain, while in 35 the condition was diagnosed as un complicated concussion.

Ritter classifies cases f concession of the brain into three types, viz. concussion of the medulla oblongata, concussion of the brain in the strict sense of the term and continuous of the brain Concussion of the medulla oblongata is character

Concession of the medulis obloquia as character used by loss of conscourans, reprinting and critical tributances, vomiting, and changes in the blood pressure. All these symptoms are transitory stain their climax immediately after the accident and then steadily decrease. Phenomena which appear later or persent are indicative glaceres organic.

ithout hyperthyroidism which are included in the

computation

In computing the mortality rate all deaths which
occur in the hospital, without regard to the cause of
death or the length of time after operation should

be credited to surgery

The danger of reactions following surgical procedures can be redoced to the minimum by preliminary treatment and paintisking care in the

management. The mortality of the rurgery of emphthalmic poter is highest among patients with visceral degeneral changes. The operation rails is less and the benefits derived are greatest when the patient comes to operation early in the course of the disease below degreensive changes have

occurred

The prevention of operative and postoperative complications by painstaking care in the details of the management of surgical cases as essential for a low mortably rate

Stratch, B. Tamers of the Parathyroid Glands and Their Relation to Outcombiach (Uder Epithikoperthen-Tamora und the Banchangea as den outcombicathen Knochesstratungen) Frankfurt Blade f Pals o 22vm, 19

This article is based upon the postmerters findings in the case of a young my men of the first state of the left side of the next provide of

About one-third of the parathyroid tumor consisted of tissio nch in gland cells, while half of the remaining two-thirds contained loose connectivetions strands in which gland cells and nests were urreplarly streen. In the part not in giazd on the paracolyma elements seen theirly pale rise colored mother cells, some of letts formed conduction of letters to colored mother cells, some of letts from their serios colored letters to colored their serios proper of from their colored letters are colored from their colored from their colored letters are colored from their colored letters are colored from their colored from their

the other and consecutive the spirit of the prelimited by the parally rook were the spirit found therefore the tunner must be regarded as a coverprowth frome excessive functional decased as this is in conformity with the hardsogs fashes which showed all the consistencies of the seemal parally road. The growth was the result, rather than the cause, of a disturbance in the calcum methoham. In contradistinction () that, the roa sidesban In contradistinction () the other mother cells or cosmophales. Therefore colargements are the parally rows) accompanied by bone denses at the parally rows) accompanied by bone denses at

described as hyperplastic tumors, his they thout this tendency are described as dynoxisgenetic (Sch alba) tumors. The hyperplastic is now formations without alteration in the beass which are described in the literature, the authorisetigrates as parally-reademants. It points out that in these cases no particular examination as made of the bony system.

Timors of the parathyroid finels three very little light on the etology of bone softening, but on stitute further proof of the relationship of the parathyroids a column metabolism. Whether the Parathyroids neutraline the calcium destroying act, whether a decomposing action of other flands of internal secretion is commenced by hyperfluxer profiferation, and hether the ladsops have part

In the disease picture through normand calcium or cretion are questions—buch still remain manus cred from (2)

BUILDER O

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS; AND CRANIAL WERVES

Genewain, F. The Machanical Processes in Concussions and Contusion of the Brain (Denachmachen \ organizate bet der Gehrmenchentering und der Gehrmkortenen). Bestr. M. Chr. 9, crimi, 345

On the assumption that the brain reacts t mechanical influences like fluid, many artters attempt to explain cerebral concussion and con turnon by hydrostatic and hydrodynamic law According to Genesicin many circumstances and observations speak against this conception. I every case of bullet wound of the brain one is truck by the disproportion between the caliber of the bullet track and that of the shot, the former bems much greater than the latter In through and through bullet wound of the brain the immediate primary track, corresponding t the caliber of the bullet, a surrounded by more or less extensive sone of necrotic beam substance the secondary track. The lumen of this secondary track is variable This necrosis around the primary track is due to the f ct that the entire mass of brain tissue corre sponding t the primary bullet track is pressed by the force of the shot int the surrounding tissue the continuity of the latter being thereby runtured If the speed of the bullet decreases than the brain the diameter of the necrotic some becomes car expondingly narrower. This is any the diameter of the secondary bullet tract is alway distinctly less toward the end of the track From these facts Genevern concludes that the brain is compressible but that for is compression great force is necessary also that it does not favor the transmission of me

chancal exergy turds of dull injuries of the skull not carriers fracture Genewein al 3 found necroses which. beginning I the site of the blow extended with varying thickness through the entire diameter of the brain od in direct continuation of the trace tory The same finding as made also in depressed fractures and penetrature acounds of the shall A compressible, slightly elastic body which conducts the waves of force in only one direction is to be classified as solid body rather than as From this viewpoint tis easy t explain the not infrequent observation that in dall injuries of the shall the large cortical areas are injured, those has opposite the point of application of the force as ell as those next t it (contre coup)

Cerebral concussion is due usually if the effect of sudden blow the force of which travels through the brain in straight line and in only one direction. This explains in the entire brain is never affected.

by the trauma, and loss of con-cooraness, the symptom which could best be explained by the theory that the brain is find, occurs only if the waves of i ree arrang from the trauma pass through the

center of consciousness In conclusion the uther discusses briefly the nathologico anatomical findings in concussio of the brain and comes to the view that pathologic finding epresents only the end of the pathologic process initiated by the trauma Every application of force t the brain is followed by infurto the nery cells in definite manner and direction which requires a certain time for its development and ts microscopic demonstration. Therefore it follows that negriti e pathologic finding in a case of brain inutes ath distinct symptoms of concussion means nothing and that even macroscopic extravasation of blood is not presumptive evidence of traumatic brain disturbance. However it may be said with practical certainty that the basis of all disturbances caused by trauma a change in the serve cells This holds true also to concussion of the brun. which is nothing more than the result of force. The I ctors responsible for contrason and concusson of the brain are the same. According to the nathologic findings the difference is only a difference of degree cerebral hemorrhage means heavier blos-Boxes (Z)

Ritter A. Brain Injuries with Predeminating General Symptoms Their Late and Persisting Results (Des Gehraverleitungen auf Vorieruchen der Afigumensymptome ihre Spass und Dauer folgen) Destrick Erick f Chr. o. chry

In a study of the large scondent maternal of the Zunach chair so far as it related to leasons of the bead, the author found that those cases deragnated as concession of the brain made up a very high per centage of bead myones and a still ingher percentage of brain nipures. In the 1 coop secredic cases treated during the last 1 entry years, 1,355 (as per tention of the last 1 entry years, 1,355 (as per cent) of the latter there was a land on year (as per while m 15 the conductor was disapposed as uncomplicated concession.

Rutter classifies cases of concussion of the brain into three types, via concussion of the medulia obloogata, concussion of the brain in the strict sense of the term and continson if the brain

Concession of the medula oblompata is character uned by loss of comerciances, repeatory and critical properties of community and changes in the blood pressure. All these symptoms are transitory stain their clumar immediately after the scrudent, and then steadily decrease. Phenomena shich appear later or permit are industries of severe organic

changes. Characteristic of the condition is defective memory regarding the accident. This was present in o8 per cent of the cases reviewed.

Expensestal research (Breshner Rahm) refers all symptoms to pressure on the medulia observaciance, in most cases, by blow on the forebend or occiput. A relatively slight transm may cause death through sample pressure on the medella, or peculy on the responsion center. In uncomposite concession of the medulia oblongata the pathologicanationals indusing are entirely negative.

In 65 per cent of the cases reviewed some of the symptoms persisted. In the others, the verage duration of symptoms was from three t six months

The prognosis is therefore favorable

Concession of the brain in the strict series of the term is characterized by ertiting, stagging gut beathche deprission et: Unconsciousous is not acqueal in that of the cases, but is some it no crus mimediately and is ery deep. In general, the carrier petters is see uniform that that of a concession of the medulla oblompats and the disapportance of the phenomena is slower. As rule the concession is caused by extensive, though not very server, violence on the lateral parts of the crashing.

The particle pre-statement finding in a strateging undered concession is revising of the cell bodies, dust like horsogeneity of the choosafin ceither or breaking down on the cell, and deritims with the formations of very small scattered slands of necross Every coercisions in the refer based on organic changes. The symptoms were found it preset on a sverage for motetem and five-tanths months, decidedly longer than those of concussion of the medials obloquate, but finall disappeared ex-

urely Containing of the brain is more severs than concuspon of the brain. It is characterized by distinct focal symptoms, unitative and paralytic phenomena of motor and sensory sones, and disturbances in various senses. The analtanheaty of the symptoms nounts to diffuse change us the brain. Unconscious ness continues longer and the pulse and respiration become sympathetically tavolved. Continuon resalts usually from severe violence on the lateral parts, particularly to the temporal and paractal regions Pathologico-anatomical examination reveals clearly recognizable capillary apoplemes cell description and detnise. The duration of the symptoms is considerably longer than that of concussion of the brana, versions four and eight tenths years

The treatment in each of these three conditions of fifter only and egree. As the manimum, three seeks in bed in a desired, since long-continued bestache and personant symptoms of considerable surface for the patient in allowed it get up too early. For from four to our vertex after this red bed the patient should not be allowed it evert himself very much, and during this time and the patient should not be allowed it evert himself very much, and during this time and functional parthods of treatment may be seen just got the control of the cont

Gotch, O. H. Transmatic Paraplega: Observer tions on Casse with Reference 1 Transmar and Prognosis Ent M. J. 1921, 1, 240

The author reports fifty fix cases of insumpparaphea sustained in the World that all mone planted by other disease processes. Thirty me are of the complete below type from the fourth or the texth dorsal segments, and seventers of the incomplete lease itype from the eighth dorsal to the fifth fumber segments. Both the complete that fumber segments. Both the complete factor of reserve warreflow.

Particular titention is called to certain special

aymptoms of the complete type

Fan in the lower extremutes in often very sever
requiring opastes for in control, and may be ac
comparing by an elevation of temperature up to

degrees F. Fixtulence is continuous and its occasionally pushed It is associated in hielder-like personalise, activene distention, and the expulsion of gas through the founds and same, I may become very three data usually relieved by printerin given his podermatically on by deep minimum given to access as

Renal cole is common and sometimes blatters turnor mass is present in the loss and the cole followed by the passage of blood stanged pureless tring: Autopsy has about enormously thirted

pelves filled the pure and calcula-

Chronic trogenital sepan is found in all times th complete paralyses of inactionion II is to denced by albuminums, pyuria, and the property of retail and vesicular epithelium in the other actus febric bizacrelation may develop reddenand be followed by pronephrous prostants, orthus or epithdymitis

Manifestations of greenia compute the last stage in these cases. They are of gradual or solders onset without read ordering or allowing returns. On postmortem examination the hidneys are found to be replaced by that resembles are require became at ity with theory walls which is alled

ith calcult and pus. The arcters are thekesed. Bedsores may be either set or dry is type and

extremely resistant to treatment

The treatment abould nother () contrasts and stillful murray () duty, message of the parts not numbers, ()) the establishment of adequal listed dramage professibly by the superpubse method, the wound being keptopen and (a) the encouragement of mental confidence mental content and allowing the patient to be op an heel chair as made as prombble — P. R. RILLINGERT, M. D.

Fuchs, A. The Far of Those Suffering Head Injuries (De Schoksele der Aoph seistres) It are used il chaode 9 s, irra roso

The author bases his article on 5,73 injuries of the head.

One of the most frequent complaints of persons with such sayanes is of herdache and vertigo. The headache aries from simple neutraphesic presunt

decided migraine. The vertigo varies from attacks of true disturbance of equilibrium inde pendent of headache and general disturbances to attacks of decidedly epileptic type. Headuche and vertigo are naturally very often associated. The objective symptoms are about Differences in the purple and symptoms of damage to the laby maths are noted. The difference between the purels is frequently transitory and disappears a th the passmg of the headache and attacks f ertugo Changes in the pulse and the true somiting of cerebral character are rare Increased pressure can often be demonstrated roentgepologically. There is no fixed relation between the sevents of the original infury t the head and the frequency a dintensity of the ttacks of migraine ad ertum Persons with burge crantal defects suffer less under such ttacks than those with small or no bony defects The skull is seldom sensitive t percussion, but frequestly as sensuive to pressure on the scar

In the treatment of severe attacks of migraine lumbar puncture is useless. The treatment can be only symptomatic the emphasis of exterior and hyperic measures. The loss in efficiency is difficult 1 estimat. It is especially the morbid fear of vertice that fremently nevents the reamption of

the former occupation

The author last wanous occupatoms as the thecomplaints of the injured relating to each. The most frequest complaints are of bitting carrying burders, bending best climbing ladders the obseof workshops as best over titude 1 work and waterstusty in sterring. The most frequent causes of temporary intertrusion of our air beach here

vertigo and convulsions

Losse of cerebral function of the motor type cross ander the chinacity to of hemi mone and polypirps or pureas. As a rule motility a restored more easily in the lower extremities than in the upper and recovery from a disturbance of the sense of position occurs results. Personing genomes sense of position occurs results. Personing genomes accomplished the sprenically than in sensor; per accomplished the sprenically than in sensor; per aliqua Losse of function of cortical areas does not improve the time. However impured persons who are melderical slear to be less distribed by it

One of the most distreming complications of agury to the best in transmist epilerys. N clear relation can be made out between it and the serving tits, or type of the external supry. It weres, box ever that injuried persons on a born debridement is performed inmediately after the training and those who have large defect suffer from epileptic. Itself is not contain the others. In fix orbible cases we say as increasful in others the treatment indicated in the administration of becomes and the probabilities of keohal. Lat abscesses developed in only four least of the administration of becomes freedoged in only four least of the administration of the conduction of keohal. Lat abscesses developed in only four least of the administration of the conduction of the co

hich ers frequent, ere er scheeced by finetrating moods, irritability quick exhaustion, intolerance of heat and elcobol, bendaches and vertopo Paranous conditions were rare

Downsin, C. E. The Treatment of Brain Abscass by the Induction of Protective Adhesions Between the Brain Corter and the Dura Before the Establishment of Drainage. Arch Serg 9 3, 4-747

The author engents that after brain abscess has been control by embeatory puncture a very many than the control by engents or puncture a very marked own to but not into, the abscess cavity norder to attimulate the formation of protecting adhesions between the cortex and dura. After few days the drain should be pushed into the abscess are ity. Later similar rubber wicks should be added, not a thin a week or ten days: tube substituted for the brubberthase drains. Several I. Kora M.D.

Fay T The Administration of Hypertonic Salt Solutions for the Relief of Intracranial Pressure J Am V 422 93 lvcr 1445

Hypert nic sait solutions, acting as dehydrating gents, crosse the rapid reduction of intracrantal tension. The administration of magazinum sulphat solution (16 or of crystals in 8 or of water by mouth or a oz of crystals in 6 oz of water by rectum) gives marked rehel from the symptoms of intracranial pressure and medullary orderna and helps to elicit symptoms therwise masked by the pressure. The symptoms it relieves include head ache omitme choled disk medullary depression and com. Its effects become appearent in about an hour after is rectal disinustration and somewhat earlier after is oral administration. The dose may be repeated every four hours until the desired debt dratton has been obtained A larger volume than 6 os at en by rectum may be expelled. The addition of a cm of campborated inscrine of opium may belp the patient to retain the salt solution. Accumulated find may be syphoned off from time t tim The fluid intake should be restricted t the minimum

The routine administration of magnesium sulphate solutio two hours before operation in cases with increased tension as of great value and permits the exposure of the cortex which in the presence of decided pressure, would be unsafe. It also checks the raped advance of papellorderns and re-Laves the come and resperatory depression in cases of marked intracranial pressure. In postoperative stupor following intracranul exploration, with a marked fall in the respiration and pulse rate, the raped dely dration checks the pressure on the basal centers and allos the respiration and pulse to return to normal. In cases of traumatic head in curses, in which the pulse and respiration fall be low normal, its use is so effective that it renders surpical intervention annecessary Rapid dehydra tion of other find collections in the body such as ordents of the lungs may also be accomplished

Thompson has suggested the use of magnessum sulphat solution in glaucona. De Schwenita and Bart have noted an pyrecable reduction of intra ocular tennon following its administration. Rawdin

226 INTERNATIONAL AB controlled with it an orderna of the glottle following

Ludwig's angine.

The intraveous injection of sodium chloride sortion is of value in case in which rapid reduction of intracransal pressure and volume is necessary on the operating table. The intravenous injection of from 30 to 100 c cm of a 33 per cent sodium chief sodium chair and injection of some sodium chair and injection of early someties as important adjunct in exploratory enumerous, societility when the dura is injustified sand reportant adjunct in exploratory enumerous procedules paracture is unsatisfactory or impossible and adjunction of the contracture is unsatisfactory or impossible and the contracture is unsatisfactory or impossible and the contracture is unsatisfactory or impossible and the contracture is unsatisfactory or impossible in the contracture of the contrac

M ground subplate is not dailyable and produces as effect through raped debydration of the blood plasma solely through the intestinal allwith compensatory absorption on the part of the blood from the field spaces, especially the ventricular system, to nation normal blood reduce. On the other hand, hypertock sochum chlorde solution of the blood leads to a temporary geometry times retention with a rapid return of pressure symptoms as few bown after its administration.

WALTER C BURLET M D

Wolfstein, M., and Bartlett, F. H. Brai. Turnous in Young Children. A Clinical and Pathological Study. Am J. Dir. Child. 212, 229. 57

The results of a study of seven of mos cases of brans tensor found in 4,000 stopues upon children are reported. Five of the nonplasme ser located in the cerebellum and to its the orrebrum. All of the timons were glomation. In the five cases of infristratorial tumor the cerebellar versus was involved.

In the disposes of bean tumor in children there are two problems fart the dispose fart the dispose fart and second, the patient is not old enough to compilial or subjective feelings. The fart factor sense to explain the infrequency of vomiting and convalsions in the sense of cases reviewed. Does presented secondary by droughalous. Examination of the spend field was negative.

Penfield, W. G. Cranial and Intracranial Endotheliomata. Surg. Gyme. & Old. 0.2, 22211, 457.

Dural endotheliomata give endance of their presence by the development of a typical, aborty growing hard bony tumor on the cranium. Their nature is not entirely understood.

The microscopic pecture is that of the so called indotheliomats of the dura, their middle being frequently arranged in whose. They arise from the stracknood or more layer of the dura and displace without infiltrating the brain. They peak through the dura in umber of places, eater the overtrong bone and cause a complete rearrangement of the osseous structure. In some cases the temporal muscle and scalp may be infiltrated by the neoplasm.

In 470 cases of brain tumor proved at operation or autopsy the condutor was associated with a lump on the crassum in ten. These ten cases prsented amiliar pathologic partures and clinical histories.

The characteristic tumor—th stabling pabroath it is pathogramonic of the condition Operative treatment is the only method of dealing

th these growths. They should be removed as early as possible. This treatment should no sails factory results if the operation is survised. A better of transmiss a new channel had

A history of traums is not always obtained, but the tumors are more common in men than in women, a fact suggesting trauma as a came

The author reviews the literature and miss cases of this type of tumor. Mancia H Hower LLD

D Allocca, O A Further Report on Corobral Turnore (Ukenore contribute on tensor cerebrak) Policie Report of xxx sex med net

D Allocco has already published the clinical and anatomorethology fladings in twenty cases of cerebral tumors observed from \$80 to got I this article be gives the histories of ten others. The latter m be divided into t o groups those ith single tumor and those ith multiple tumors The first group sociuded cases of fronto-parietal sercome serrome of the left frontal lobe with involvement of the right solitary tubercle in the left ade of the cerebellum, and hamatoms of the dura mater corresponding to the left rolandic area The second group included cases of suberculous tumors of the floor of the fourth ventrade and of the rught cerebeller bemunhere, multiple disseminated curebro dural surcomata surcoma of the right semi oval center and of the t occupital lobes secondary to a latent supe renal sarcousa multiple taberculous tamors of the motor centers, and tuberculous tumous in the left semi-oval center

D Afforce concludes that, even in cases of paul tiple infracranial tensors it is sometimed possible to determine the streams of the growths if all the symptoms are studied with regard to their appear ance and progressive development.

The treatment of most intracramal remote is chiefly surgical. Definite recoveries, however are rare. The treatment of syphilitic tumors resulting almost at a successful. A survey almost at a successful.

Denk, W. The takes of Procumorentriculography. (Encephalography) in Brain Diagnosis (Di-Belesting der Factuevrentrikolographis (Encephalographis) (seef die Handingsonik). Mit. J. George's d. Mit. Chr. 1913, 2021 9.

The athor reports his experience in the fit of the ventrales of the central nervous

orseen thuty! came

When oxygen is used air embolus is prevented th certainty as this gas never causes embolism even when it is given by intravenous injection Denk employs a small apparates which is shown in an illustration. For the localization of a brain tumor he recommends direct ventricle puncture in the lateral position, with the face turned to the left so that the right anterior cornu, which is the ne rule is lowest dow With local punctured as amentheur a small hole is drilled can to the right of the bregma Before the injection is made the synage plunger is dra in back somes hat so that the oxygen ill not be injected into the brain sub-stance. The amount of oxygen used aries from 15 to 170 C CEI

Direct alling of the ventracles causes no reaction orth mentioning, but when lumber filling is done the patient immediately experiences names womit me and headache Later whichever method is used, the temperature rues for several day and the patient complains of dull headache

Death occurred in two of the thor' cases be

had not succeeded in injecting the oxygen both of these cases there was large brain tumor The deaths are t be attributed, not t the method. but perhaps to technical error (pressure ariations caused by the lumbar puncture) Therefore conservation is necessary in the use of lumber puncture

Ventriculography is not harmless, ad is sestified only when cimical diagnostic methods do not give an exact diagnosis. Transillumination is not sufficient as a rule. Exposures should be made in four portions I the occupat position the oxygen rues int the anterior cornus, which then becomplausly mible In the frontal pos toon it rises into the posterior cornus, and in the l teral position into the opposit entricle

Is communicating hydrocephalus (three cases) the ventricles may be filled from the spinal canal, but the unarechood space cannot be filled from either the entricles or the lumbar canal. In case of usulatoral filling of the entricles the gas must be dimensionated evenly by changing the patient poutson In obstructs e hydrocephalus the en-

tracks cannot be filled from the spanal canal and the uberachnoyd space cannot be filled by any route In three of four cases. tumor compressing the aqueduct or the fourth ventracle was found at Whether it is possible by the method described t distraguish tumor by drocephalus from the adhese type is yet to be determined

I cases of large brain tumor entriculography gives considerable information. Pressure on the entricle on the same side causes changes in shape and position. This suggests but does not prove the presence of tumor (exudat hematoma) shape and degree of deformity ary greath localization of bras tumor will become much more certain through entriculography and as a result a greater mustber of such tumors will be removed radically The author a lusions are as follow The method is out dunger

s In cases of strong pressure on the brain, humbar filling is contra-indicated 3 Obstructive hydrocephalus indicates a tumor

in the posterior or median fossa

Large brain tumors cause a change in the shape and position of the lateral ventricles
5 Conclusions abould never be drawn from entriculography alone the clinical symptoms also

must be considered 6 Defects in filling should suggest first the

possibility of faulty technique STREET, (Z) Adson, A. W., and Ott W O. Preservation of the Facial Nerve in the Radical Treatment of Paro-

tid Tumors. Arch 5 rg 9 3, 41, 139 Complete removal of the parotid gland with the preservation of the facual nerve is indicated in certain cases of tumors of the parotid, especially those that ha e broken through the capsule or have recorrect after local removal. In cases of small encapgulated tumors this procedure is usually not indicat ed In cases in which metastasis has taken place in the parotid gland or cervical lymph glands and inwives the facial nerve it is exceedingly difficult to

preserve the nerve

Mixed tumors of the paroted constitute only a small percentage of malagnant tumors of the body in 1.607 patients who were examined t the M vo Chanc there was only one The growth of these tumors is slow. As long as they remain encarenlated they are not herbly malemant, but when the capsule is ruptured by growth or an incomplete operation, investor of the surrounding tester soon takes place and the growth becomes highly malignant. According to Sistrunk, a permanent cure is obtained practically always in early cases by empdeation of the tumor The importance of complete removal of the parotid gland is emphasized if there is possibility that the tumor cannot be enucleated completely or if there is any evidence of an extension into the peroted gland. Radium as of some value in the treatment of these tumors, but does not commare in efficacy with surrocal treatment

The technique of the enuclestion of small encan-

sulated tumors has been described by Sistruck. The utbors have found that it is possible to carry the dissection of the temporal and cervical portion of the seventh perve through the paroted gland and to desect the nerve away from the gland An incason is made a cm below the lower body of the mandible and running over the mastold process, and the inframandabular branch of the seventh nerve is exposed This is followed upward until the Y of the seventh perve is exposed. A vertical incision is then made from just below the sygoma, passing down r cm. in front of the car and joining the first incresion Next, the cervical and temporal divisions of the seventh nerve are desected through the lower lobe of the perotid gland the facial nerve penetrates the lower lobe of the parotal for a distance of only about 3 cm and then hes underneath the parotal on the muscles of the face. The dissection is next carried forward sufficiently to elevat all of the purcoid, and when this is completed. Stemos a duc is liquid and divided and the partited gland is recovered from the skin. If the skin is involved, the arm may be removed with the matigmant mass. The deep lede to the partited, which law posteries and messide to the ramms of the mandable is removed by gently elevant ing the facal incree outward and dissecting out the partited gland which his incread: it. The exposure obtained by this procedure facilitates complete removal of all partited tissues with any involved skin is thest elevance or migrant for facal perce-

The facual nerve should be sacreficed only if metastams and necroses have become so extensive that it is impossible to demonstrate the lines of cleavases.

Byrnes, C. M. An Examination of the Spinal Accessory Nerves from Case of Bilateral Acquired Speamadic Torticulis. But John Hepless Heep Balt. 9 3 XXIV 5

The author reports a case of bilateral acquired spannishe tortucible. The system was retrocoller and there was inhythmical variation in the size of the neich which reached its maximum. I most each day. Two undertified posterior cervical nerves both spinal accessory nerves, and the attenuested, the trupents, the spikenies capital, and the semispinalismucles of both acles were sectioned.

Studies were made of all the muscles and accessors nerves. Cross sections of the left spinal accessors revers stated with hermalium and and fuchan showed many faintly colored, swollen arise cylinders of irregular online with few beattly appearing across and without profiferation of any other elements.

Longitudinal sections above of fragmentation and diamy of the asomes with a shigh increase in the neurlearna sancie. The Weigert stam showed can plet absence of my ol. The right nerve was more nearly normal. The muscle preparations showed variation in the use and shaped of becells Soure-were strophic and others hypertrophes with longitudinal clearage. In the splemes captas many cells were dismibiled shaped, vaccolated, and undergoing eneral dismiteration. P. R. BILLEGOREN M. D.

SPINAL COND AND ITS COVERINGS

Eisberg, C. A.: The Early Symptoms and the Designosis of Tumors of the Spinal Cord, With Remarks on the Sargical Treatment. As J H S. 9 3, dry 119

One of the most occurred early symptoms of pread cord tremes a neurology pan due to our inside of the posterior roots listed of this noncident purp, many patients fare complain of persentent pain as the back of the neck or in the thorace pans. Usually this as well obtained and does not radiate small late in the course of the disease. Para in the lumbar area which radiates down the backs of the legs is a common symptom of tumors of the immonstrat segments of the cord or of the crude spelna. While gunstle cord tumors may deredop without prin, such tumors are smally wead and develop from the pia or arachnoid in the anterior, antero lateral, or postero lateral surface of the ord between the nerve roots. In cases of catassedalary and extradural growths total absence of sensory destributes is run, but in cases of intramedalary growths that type of disturbance is common

Spinal cord tumors are classified as posterior when they he behind the posterior roots as posterolateral, when they he between the posterior roots and the dentate beament, as antero lateral, when they he between the anterior roots and the dentate bigament and as anterior when they lie in front of the anterior roots. Posterior turnors are char acterized by root pains and marked disturbances of muscle and sount sensation. Postero-lateral growths usually cause severe root pains and commonly Brown Sequerd sy drome Growths upon the an tero lateral aspect f the cord frequently have a punless beginning with tingling in one or both lower imbs and let sensory disturbances turnors frequently cause tinging in one or both loser extremities and lat acrosory disturbances

The author behaves that there is an arrangement of them within the various tracts of the cod which corresponds to the extremities and their various parts. Therefore every possible means should be used to localize aparal cord transor most countries. I creat F D viz. MD.

LOCAL F D viz. MD.

PERIPHERAL NERVES

Destraich The End-Rentite of Nerve Strain in Gunshet Wounds of the War of 1914-1918 (Enderloige on Nervennashten nach Schunver letangen aus dem kinege que q 8) Ual kle qui au 197

Among 7,000 cases of war omed there were forty-siz cases fearey signmes in which the severed nerve as suttered. The results have been very war asked closs. In only seven (§ 7 per cant) has there started the fearer of the severed severed that the fearer of the close of one of the results were obtained only in cases of injury of the right anerve. I two cases of median nerve is not one of the right of the control of the right of the righ

One reason for failure is poor bealing Another factor of importance is the length of time fast staged after the unjury before the saturang six of the same staged after the unjury before the saturang six of the same saturang that the same month after saturang of the median nerve held saturang the saturang the saturang of the saturang the saturan

STANDATORNIC SERVES

Wejcischowski, A. Peri-Arterial Sympathectomy (Penartendle Sympathectoms) Policie for let 9 2, 1, 800.

After a level review of the literature the author

After a bref renes of the literature the author reports the experiments in pen antenual is mpathed tomy which he performed on the f moral artery of rabbits. After seem, fourteen, thenty one, thirty forty, fifty and seventy five days the part of the vessel operated upon was removed and examined student the microscope. The microscope examination is rather difficult and ery frequently leads to in a rather difficult and ery frequently leads to in

Vague of degeneration ere found in the lower portion of the easel, but growth of the netwe fibers from the upper and lower edges of the defect particularly the former was noted. Union of the nern, fibers, as not observed.

While the thor believes the complete removal of the sympathetic please is impossible a distin t dislation of the visid occurs below the area of operation. Even a early as the evening I the day of operation the limb operated upon is a meer than the other Than conditions continues for only a few.

days at the end of a week the difference in temperature disappears. A second operation shows, however that distation of the artery and a stronger circulation persist for three or four weeks. In the course of the second month, these differences disappear completely.

Matheia, H. Pers-Arterial Sympathectomy in Arterioscierottic Gangrene (Zur peranteriellen Sympathel tome be arterioskierotischer Gangraen) Leutrall f Chr. 9, 1, 1, 30

This article is report of two cases of a term of scheduling anginuse in which per-arterial sympathic temporarterial sympathic temporarterial period to the control of the c

postoperati ordensi damaget the small custis H beleves that after the sympathectomy these each became greath dalated a dallowed the passage of fl d through their w lb. Trophae daturbances and susceptibilit is affection then resulted.

SURGERY OF THE CHEST

TRACHEA, LUNGS, AND PLEURA

Halahan, R. Hidathi Cyst of the I mags and Pleura. Surg Gyace & Oht of xxxvi 354

Hydatid evats of the lungs are next in frequency t those of the h er ad may ex se severe justions skeam in it eroms bus nottenique of heat has They receive a reptoms in the hear earlyharmopt) as and hacking cough which in the cult stages is not son ted with experioration In the hing there is sucht dev forment of the ectot) I Hence repture it the pleurs or a bronchus or both is common Renture int benechus causes lolent fit of coughing cy nous severe dyinners. Autroopty as, and give ter or less mount of expectoration containing Lit of prembrane and danghter crats. Hooklets m y be found on microscorec examination. On rupt in the cost may become injected accordancy if it is not bread i fected The produces purulent spurury hectic lever great a sting d del his. The patient appearance suggest ad need t beregion. Runt re int the pleurs simulates pleural forms or emprerus. A large surroptured that I the law of the lung may simulat pleural efferen

A typical case is that of a otherwise healthy nerson with a dr. lineluse county the scant or no apotem Repeated examination fails to demonstrat tubercle bacilla and hieroopty or suggest hydatal pulmonary disease, especially in country ardathle occur In counoph lis and scram do grantic test of limits, lipsthic or I bedine re additional evidence. When the crist becomes larger it sees as the roentgenogram a round shadow and causes decrease in the breath sounds or their becace. It may be necessary t delay the di gnops atil there are physical age pioratory puncture which in es lear waters dead confirms the nature and position of the diverse Puncture should be done only ben the patient is prepared for operation. Leakage of the cost contents may cause toxic) imptoms i some cases and occasionally simple puncture of the cyst ba been followed by infection and death

Although appel means recovery sometimes takes place to the backgrounders that argical treatment place to the backgrounders that argical treatment place to the backgrounders of cere when the daysons to etablished The cyt should be precated from the arginate The cyt should be precated from the sarent accreade surface point. One see most her say be reserted in necessary. The thorboth the hear griant the ound in the check till by means of catgod light irrepeated into large curved secule through the untertouted mande and the long time. He then crufes the position of the cyt again with the exploratory springer thought the resolvent is easily removed. The enterest is one resolvent to easily removed.

delets that the remaining early resembles nor mal pieurs in the authors option, the provinciboral associated in the side opening of the pleurs is not disaprents. The cit in right of the long is arroly returned; the earsyst of the could to control harmorther if it is sometimes difficult in display again when the lung his collipsed with the chest again when the lung his collipsed with the chest again when the lung his collipsed with the chest again, and the could be constant when the charmonic in the constant when the charmonic in the constant when the could product the cysolic state of the could product the could prod

The subsequent treatment consists I maintaining good draining in tog neuraling der getting the patient up early prings deep-breathing and other moretrate exercise and keeping the patient in the firsh six and sunshine. Matriac Entagra M.D.

HEART AND PERICARDIUM

Weller C. 1 Liturated Cardiac and Carabrat Materians in Material Canada / Canada K search))

we of diffuse melimotic mercomatosis in beck de the occurred after mechanical inform of nd operation upon purposated mole topas revokled to the braun solitary metastans in the from of the fourth entricle umerous older cortical ad beortical metastaves aid diffuse merineral surcorr tosts more of back had aff exced the clinical part re sufficiently t call trea tion to their presence. The memorgical in obvenient exactly hie that of certain ses reported as primary meningral metanouncoms and throws for ther doubt upon the possibility of each origin The were also ery numerous myocrardial aid endocurilial metastives which had on sed chantall enident rel in sorth transference

Eart C Rosersage, M D

Colley W. B. ad Brewn, P. K. The Sortical Stratment of Anglon Pecturis. Arch Int Med.

In 1500 Franck first suggested resection of the cervical sympathetic treats, for the relief of the pain of anguas pectoral. Jonesco, in 200 as the first to perform such as operation, became, this argument is all of the present performed to the performance and the little state of the carbon-service pieces of the 1st the end for the carbon-service pieces of the 1st the relief performed by irritation of the carbon-service pieces and the 1st the relief performed by irritation of the carbon-service pieces and the substantial properties are interrupted, there alsuming a remptons which such afternation that the such discount of the carbon-service pieces and cervical cortex, but recent us estigation and cervical cortex, but recent us estigation there exist the research of the control of the carbon-service is any afternation there exist the carbon-service is and for the first of the control of the carbon-service is and for the first of the carbon-service is any afternation of the carbon-service is and for the first of the carbon-service is any afternation of the carbon-service is any afternation

The authors report five cases in which resection of the left crewal semesthetic trunk was done Definite improvement resulted in four but one nations siled Such a procedure, of course causes enophthalmos, narrowing of the malnebral fasture. and constriction of the purel on the side operated

The reader is referred to Tonnesco's original affick complete description of the operation. The indications for it ha e now been extended to include elements exophthalmst roater englerny and in Lower P D was M D reminal neurales

OPROPERAGUS AND MEDIASTICUM

Parsons, J. P. Enterged Thymus—Clinical Find I to in Series of Cases. Med C. 3 Am 011 L 10

The other behaves themse conditions are not rare nd that if these cases could be routinely discovered the death rat in openmons and other acere refections would be materially reduced, es pecially among children. The \ ray sa valuable aid in the characters of enterred thymns but is not m(all ble as look narrow thick thy mos will not cast a shadow eventer than that normally cast by the sternum and the great rucks nd mediantinal stunds moreover chest recture taken here the duphrasm is contracted and the beart is in systole shop a themse shades tits west

Of a screen of cases I call med thomas cut d seven were those of infants tanging from 334 t 6 months of ee and one as that of earle venes old. In seven of these cases the conditions as moded in the 1 ms

I review of them eight cases demonstrates that haby born ith an enlarged themos may show only ery mild the mac symptoms until he acquires severe fection or has had several colds, that such babu are subject t colds and infections that thymic symptoms may not be noticed it all uptil after several colds and that repeated infections in

infa t ith an only moderat by enlarged thy mus may came grave duturbances. The miants have cases are cited suffered from choking, cyanous coughing spells or authma rebeved quickly by \ av treatment of the thympsone treatment a seek for four successive seeks Improvement is usually noticed after the first treat ment and control \ ra pectures show a decrease in the pare of the thymus Sometimes the \-est treatment is given as an emergency measure

The condition must be differentiated from a boonme cough porumous foreign both cross and

aut bma

The author cites to cases of enlarged thy mass both resulted fatally ben they were treated with diphtheria ntitoxin I one case chest plate aparters among the color of the mes which we found at utopsy. The other case was not causined ith the \(\frac{1}{12}\) and \(\frac{1}{12}\) Death was not saides in either metable

ther states that a thymic I concludes the heald is recognized. This is characterized by a short neck, chubblness, and a thick nanniculus. Enlarged thymns may be found also boxever in FRANCE H DOUBLES M D dun children

Hobert L. Th Enlarged Thomas Gland from the Lieundert of the Larry solution If I to Ilid Rec oth COVIL 4

Two groups of cases belonging to the tatus this ra scoli multitures type are described. The first are those in which the enlarged this mus is the most im portant and promunent feature and d spoors, exnectally at night, is the most outstanding symptom The condition will be suspected from the history and the nature of the dispones Venforation is obtained by the V-ray

In the second group, called simply status lymph tions or states hypoplasticus, are the cases th httle or no enlargement of the thymns shand. but 1th hyperplana of the lymphoid timus and hypordena f the more important parts of the body, such as the heart the aorta, no som of the gl nds of intern I secretion especially the advensis. the patmiars the gental glands, and the thyroid These cases are characterized by nasal obstruction and seneral calness. It has been suggested that these cases might be demonstrated by the orthoduerants method is the determination of the ratio het een the heart and limit absolute in the You make The normal ratio H r 1

O M Rose M D

Heisley G F The Metastacising Tendency of Esophafus Carcinoma Ans Sare 9 1 lizen.

In his review of the literature on the tendency of carcinoma of the comphania t. form early metasta ses Helsley found considerable diversity of counton Forster and Billroth, Saperbruch, Gauss, and Meyer are of the behef that early metastases do not occur Exms, on the other hand states that these rumore soon form extensive metastases Petn, Zenker and Code report metastages in 50 t, 60, and 6 2 per cent of their cause respectively

I comparison of the figures quoted by hirsus with corresponding figures for carrinoma of the stomach indicates that assocharral caranoma is not particularly proce to metastastre Lonjetany says that only about 15 per cent of persons dying of caremorna ventmenh are free from metastases. In an extensive stady of crophageal carcinomata Litain found that 68 c per cent showed metastases, but if local metastases in the adjacent h mph podes are excluded, the figure was 46 4 per cent. Of a series of cuses of car enoms of the stomech Sea per cent showed metastases, but if cases having regional lymph-node metastases are condited, the figure is 71.4 per cent Other figures seem to bear out these findings. In seventy in cases of carcinoms of the orsophegus, Sebening found 7 per cest free from organic metas terc

Helder andy is based on sevents fatal cases of carcinoma of the croophagus which according to the pathologic picture may be divided into the follow DE ETOUTH

1 Cases without meta tases

Cases with met stages i the regional i multi nodes the resophigus the retro resophageal lymph podes and adjucent nodes in the nosterior medias tinum and poles round the ranks

a Cases with met at ses in the more do tant

lymph rodes or in Aber ones a Croup a included forty fi cases, 61 per ent 1 the total turn! Group a hul four c sea 6 per cent of the total number. Therefore 70 per cent of the c ses included in the report were free from dista torocrasiciret stases a fect seeming t indic t that even pit the terramention of life crosphyrral carcinous show rather Lauted met t dong tends per

the cases, the duration of the imptoms I 6ft crared for red t teaths months la two cases manifest 1 on of the condition ti ere we mever In tharty placeases, athout metus ses the erage duration of amptores a four and eighty four hon dredthe months. In the cases amptoms h d been present for one y it or longer aid in ten for six

ments or lower

g structurates 1 cm/s There ere forts t eight of the patients ral period t this operation h ed benthant only days fir the operation, is erage of five nel three quarters 1 ys, while fourteen is ed t cuty days in crige of severaly four more th al three quarters da

II soom VID W Ma

Viller R T Jr and Undrus, W D W Fareri

mental burgery of the Thoracic Clasphagus The control of resperatory pressure h greatly increased the experimental ork done on the surgery of the thorn especiall the morphagus

I the treatment of carcinoms of the resophures the estrathoracic procedure is associated with high n is and little hance of restoring the tube while the intratheracic method is surgically more sample and more and t be followed by good functional results. The uthors ha devised an intrathoracic

method The first part I the article deals with a revew of the intrathoracic suture up t 1922 the ork of Holiromy selow Sauerbruck, Wally Meyer Zazujer

Janeway and Green Oml, nd many others. The hed difficulty in most of this work was that the sotures tore out and if the resection s at all extensive the tension was too great. To ercome the f rmer difficulty certain experimenters used the Murphy button, and to overcome the litter the tomach or the small intestine as drawn are not the thorax and sutured to the complaints

I the method decised by the authors the atomack is molekard draw p into the chest through the di phragms and sut n.l to the oc-ophagus by an end to-end builds is ture of Habitead. Anne then is induced with other. The approach is made through the eighth interco-ful space on the left side. The car had sup rated from the di phraem and the each are circiully lighted. The vaga may be see terrol. The fundu of the Nomach is realth drawn through the disphragm and the entire stomach mas te dra int the best with or without the onless The resorts gray is divided it the circle and the car dral stemp to crited. The ute of multiplantation is on the tenor allof the stomach well postbefundus, I the left of the carcha Hemostases is carefully atched. The stomach and the creophagus are brought not promition by matteres softeres of fine silk, firm host on the submocous being obtained with the first res of stil bes. The second suture have been be of fine will malurles ort the muscle is ers. The edge of the draphragm is then sutured

t the stoms h The method levenhed on diew losses teach life t res. The duel object of the technique of t prevent tension which is done by the mobilization of the tomath

Heren tunes ont of expires the amongsteel sutures held and a tudactory bealing with an a tact functionating anastomous resulted. The possible complication rachule h morrhage shock dulata tion of the stornich displir grattic hernia and in fection. Dilatation of the Floriach and disphrag matic bernia can be presented by carried ecount the diaphrum t the tomach The dilatation is probably not due t section of the age but more sperimental ork is necessary along this line. Om reported that he had completely ex red the du phragm is asimals whost causing marked sequebe and that he had observed T rkish soldier in the first Ballens a who h ed an act a milit ry life for umber of years th ther complet dia paragrantic herma caused by gunshot wound Jone L Bernen, M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITOREUM

Finkelettein, II and Rohr F. The Treatment of T berruloses of the Peritonsum in Children (De Behandlung der taberkulosene Berchfeller Irankrapen im kindenker) Sensel and 41hand d lerdensum und 31 facets h ik

Tuberculous of the pentioneum is more frequent in cluddren than in cluits of the other hand, very coung children are seldom tacked by the f un in which pentionium is found alone or predominates. Of seventy man cases treated in children loss periody zero cluster than the control of the country periody are not been proved that one sex has prater predisposition has the other. A heredity than the singuisted in 2b 1 sextly seven asset.

The disease portrus various exceedingly. Thirty loop represent of the children complianced of about not provided for the children complianced of about not appear until after the parents has noticed dringer in the child (quiber perentalises, entant tone, disanctination to desiry personal conting, and remittent fever are symptoms which may be more or less marked. The findings on pulpation, rectal enumention, and estimation of the stood (thebretic benilh are rarely found) do not afford the boas for a certain diagnoses. The conclusion notes can be recognized as reductive to tablettelous personal, and arrived in the providence of the control of the confidence of the confiden

trudes and a markedly tense, and the modular adheas form in hich round twherdes anying in size from that of a lin t t that of an pole can be felt and there as resistance bet een the na elind ensions cartilage. The third form is nicerous t berealoss pentionits. From the surgical state point the surpograthent may be distinguished from point the surpograthent may

the supperstive caseous form.

The prognous is most fa orable in the exidative form.

form Under amous methods of trettment, the good care and assurahment and an extended period of hi in the open air the prospects of care are good. Extense effusions about the evacuated by

puncture

In the address forms the systematic application of natural or artificial tipine run rays and by good food and care and fresh air represents great advisor to the treatment it night, as in the radia in the radia properties to the formation may be indicated as the remaining the results of the content of the remaining the formation of the contents. The longer the disease as of treatment of the contents of the contents of the contents of the contents.

cuscation or calcification, the less benefit is den ed from radiation. Whe elevations of temperature h crused, treatment for absorption is indicated. The author has had no experience with fibrolysi

rections

Leparotom) a indicated only in particular contions (but harrises, then) as t can do no more that conserv it e thermy and presents danger and disadvantages (frequent scar bermse). In all cases risk in bed f to weeks until the crudent has become resorbed and the temperature has fallen to normal is imperature. I testimal tuberculosa and the alceroms form of teberrulosis peritoditis are intractible to treatment even resoluctively; as inclease and in proportional (pain substitution).

M. (z. P. An Unusual Tumor of the Omeratum Actinomy.coms (Line seltens Netzgeschwalet Ak inconylom). Destacke Ziecke f. Chin., 922, chiz. 1,

A somewhat mornable not psunful tumor the sare of first as found under the left costs arch of markedly macasted, anemic man 4 years old The growth extended to the left kidney repon Laparotomy revealed a moderate amount of bloody crudat and hard tumor larger than two first below the transverse colo and somewhat medial it the pipen fleature. The growth covered half the carcumference of the transverse colon and in the variety the well of the colon aboved credent

When the tumor was separated from the colon a white, deeps and grandstone was found. The pen showed societies grandstand was subthly indiffracted by the pen and grandstands was found. The pen showed societies yellow grandles which, a thout doubt were actionery octor gland. Actionary costs were actionery octor grandstanted also microscopically. The point of engine may probabilly actioning rocks involvement of the transverse colon. The postoperative counts was good. The postoperative averaged consistent of the administrations of large does of sociation sociate (up to 19 m daily) and deep rocenting margiation to so pm daily) and deep rocenting margiation.

Kongramy (Z)

Hess, E. The Surjacal Pathology of the Transverse Mesocolon, with Particular Considers tion of Transactor Fiscures (for chrompholon Pathology and Mesocolon transversem, satisfactor Benefitzburgung de transmischen Schlichten der Auffachtungung der transmischen Schlichten.

Spatiations) But 21 Car 9 Learning 46
The author reports a case in which the mesocolon was only 1 to 15 cm long and stade at impossible to pull the transverse intestine forward to perform

a posterior gastro enterostomy

Frances of the transverse mesocolon, particularly
transmatic fasures, are extremely rare. To cases

are renorted in which a sever inputy of the abdomen from a fall w a followed to lacrea ing min The possibility that a portion of intestine may ha e become incarcerated in a fissure cannot be dealed The ! I will came to operation because of easter and duodensi nicer but it cannot be assumed that there as an relationsh p between the traumatie fix re of the mesocolog and the oker because in one rave the aker was prevent presiously and in the other the motors del not anne e until three r after the follows

I more common condition is secondary before trutors change in the presocolon in the form of if I whit chatrical area. These are noted pur ticularly in cases of g tric in I deoderal older and ones es of the colon and practess Book (Z)

Lengtowski, L. Cicatrization of the Mesoniamoid (Nathrald) ag im Mosengras Fol b gar leb • J 🗓

On the basis of the all observation and 137 a topoler the author concludes that cicatrization in the mesosuproud i a rel t is frement condition such being in the fifteenth yer of ide I eme tir becomes grace extens and auses chantal umptom a about the thirtieth are of his Th becoming and the end of the sugmout are nurroused is the sul shrinkage, the go leg rise to kinking which ex ses the hercal symptom of slees

Cliencally the condition can be demonstrated by ocnigen to) tamination. The contrast real is tet ded for an heormall long time before and within the sigmoul flame and hea racm is given the ampull first becomes at th dilated and the contracted tra vition passage into the signoid is manufested by contrasting stre k the argument therete it returned a ninger and has a one by form which, with the afferent and flerent loops, presents the shape of the Greek letter some At operation, this shape is particularly distinct The ext tusting bet ec the end of the grand is a wh recognitable. As a rale it occurs in only the lit raisede of the mesongwood, but sometunes in ol es the medial sale. In most cases i to limited t the peritoneum ad doc not affect the

(11) those bet een the peritoneal lea et er the ruch The operation high the thee proposes on lets in sample section of the ex tracked torses. reparation of the end of the agmoid t distance of

a to 6 cm and covering of the defect thus formed in the perstoneum by metins of freel transplanted omentum. A case operated upon in the masser חום מנה

a still thout symptome t Itays (7)

GASTRO-INTESTINAL TRACT

Hra. R. K. S. The Overtion of a Gastric Hormone Owned I & per Physical 9 221, 79 Hutamor causes gastric secretion when injected Intravenously contrars t the observations of Porseliki and others who obtained secretion only hen they injected it subcutaneousl or intrauma-

Adrenalia does not liabilit the secretion provoked by the alatumine but may delay its stillow from the stomach. In some persons adrenaba excites secretion

There is no gratese excit ng substance in the cir culation after meab. The griting of Folius must be regarded a catracting product rather than a lateral secretion. The familiation of the giving or giving carity I to the stomach and due denum correspond to the distribution of muchel clas I it is suggested that the excitant is extracted from morned cills

The blood of fed animals has no apparent effect on gastric secretions has translated depetly or m

Susce there is no greaten excut ag substance in the blood after meals the excit it found in a lone ad other extract 1 not secreted at the blood teram and the mechanism of secretagogue action is not due to internal necretion. The question of gasthe envirtageouse en ortion therefore remains un solved. MINIEL KARY VID

McLicar G. 5 Distribute in the Chronic Droperabec Consta 1 9 1 2 1 10 17

The development of the madronies of the chronic dispersal has been long and technoss and has de repeted largely on the preclation of a thorough miles and physical examination with operation implifier and result. (here a) tamusation of the gistric materials foralgeaulogy evanitation of acted these t operation and store his all been factors in the des korment. The happiest tr ults in diagnosts has been obtained best by con sers tive and t derant emplo ment of it allable methods. By these mean, the growing of phenomesa uste scadromes ha become lumbed and non and out in more definit relat

The syndromes of peptic feet tample and comple cated) gustne cureasems holes it its cholelules

and chrosse premise to the functional dispression. and magraine are outlined in some de ail Lacomolecated peptis. Ker the purest lineral

evadrome as characterized by periodical semonal track of engentric di tiris at gula tunco which are exect by food and ones and real. The es aspions usually progress th users son several shorter periods of irredom and the dev lopment of meht pur Differentiation bet een gustre and deordered where a deficult chancell and is function of the rocatgenological I bor tery. Gastric alcers are frequently at paral 1 number of perfor to keets cause pain suggestive of gall stone disease Complicated ulcers lose type. The distress becomes more or less continuous, food may said to the dis comfort, alkalies become less efficient, coming as often ladaced, and the stomach (ub seed for rober. The stemeth oft

from obstraction

In paster occusions history which simulates that of ulcer is obstanable in about 34 per cent of the cases. In this proup the old dyspepts taken on a new character. In the remander an alarming dig time districts develops unddenly. Persons with account uppear all and he are appendently docube tutted: a wary pulled of the shin, material development of the shin, material development of the shin, material development of the shin of the shi

The roenigen ray gives dided accuracy in diagnors, and localize, the lenous. With the and of roent geograms, it is no-thl also to estimat the high degree of accuracy the operability of malignant

gustre: disease

Persons in cholesy stitle complain of gra shortly after meals in intoferance for fais soot food, and coarse-tegribles. The distress a misrimitient, and coarse-tegribles. The distress a misrimitient, and may be accompanied by research right hypochoodings tendences in cholcitusus there are no addition, attacks of cobe of suidden outside and suiden creasation. The pain may be referred to any direction.

The dyspepus of chrome appendicitis is the least lear cut. The diagnosis depends on the development of a history of acute attacks. Ith tenderness in the right lower quadrant ind a dyspepus irregular

in character and relief

There is no adequate chambration of the functional dyapopass. Their diagnosis depends on the surfacion of organic disease together with the deportment of the patient the arisability of the derish of the history the degree of distress from disant the presence of discussis, social or benniess disharmony. Migratics must be shmitnated by its characteristic history.

I the May Clime the gastric and roentgenolog scal laboratory procedures as co-ordinated and has e for their purpose the remainton of gastric motion function secretory activity the discovery of departures from the normal in the luminal contour and motility of the stomach and doodcraim and the

localization of the lesson

In 11 the dyspermas pain is commonly felt in the epagestroom but the seventy duration t pe time of occurrence, method of rebel and amountion of emptoms giv valuable information in the differ ential diagnoss. Jaundice has himited value differentiation of the dyspersias. The position of tenderness is insecure evidence of the location of a lesson, but is most important when present over McBurney point Epigastric tumors associated th gastrac distress are usually malupoant. Heros temess is an important symptom hen it is also tisted the ther gastrac symptom. The possibility of an amounted memophilia or purpura must be considered. Haematemens occurs in about 3 per tent of cases of gratine alors a 3 per rent of cases of duodenal ulcer, from s to 4 per cent of cases of dresue of the gall bladder and in from 1 to per cent of cases of chronic and sub-costs approachestus

A few cases of hematemens have been observed in which the source could not be determined

Ostross, E., The Disgnostic Value of the Atropin Test in Pytoric Conditions (Urber des Ingrosusches, West der Atropaprobe des Pylorus) Rentpranique 92 1, 5

There are numerous cases of gratice and doodenal older in which bother direct not indured symptoms of ulcer are observed. These are generally treated as gratice neuroses, simple hyperacidity.

Up t the present time t hus not been possible to establish reentgenologically the causes of the

adhesion of the gall bl dder t the prioris or the duoden in

Octyoes trempted to sol these to diagnostic problems by means I his tropic test. He reas-

oned as follow

If the perabolecular dheatons re caused by gall stones on the personean coat of the doodenum would be invol ed, but if they are caused by a doubtenal uter there would be extern a nationneal changes the entire thickness of the interainal still a ferror with the still be the interainal still a ferror with the still of the mission of the gangloot cells can be tested at the architecture of the condition of the gangloot cells can be tested at the architecture.

In cases of ulter the pylorus is predisposed t

of ulcer but not in health

If the reentgen (a) examination abox a adhesions, the tropine test may explain the cause of these dhesions. Lack of modifier of the stomach for four hours after atropuse indicates. callous ulcer where as a negative test pounts more toward childerystim.

The exceptions to this rule are cases of gastric tony ptons, gastric crossons, recent shallow ulcers and extensive changes in the biliary ducts. In such

cases the test is not conclusive

The author tested to petients in this way and gives fix characteristic histories of his representation, atropate sulphate is not suitable means being a tropate sulphate is not suitable means being to the properties and the result indee that the positive tropine cells not a technical by the tropine sulphate modern cells of suchtach by the tropine sulphate modern cells of such achieves the tropine sulphate modern cells of such achieves the positive tropine sulphate modern cells of such achieves the positive five the tropine sulphate modern cells cells and the such achieves the positive foreign the such achieves the positive foreign cells and the such achieves the positive foreign the such achieves the positive foreign the such achieves the su

In perichalecystic adhesions without marked hanges in the bilists ducts the test is negative

o LORINATE (Z)

Heile, B. The Surgery of Pylorosparm in Nursing Infants (Zur Operation des Pylorosparmes der Sacurings) Zestrald f Chr. 9 3 1, 6

Grooting of the piloric tumor by Rammstedt method w thout opening the micros membrane and w thout suture is the amplicat and best operative procedure in the pylorospiam of infants. Care is necessary however to keep the deodenium as a from the tumor mass as it can be easily damaged. The process of grooming is therefore begun; the middle of the tumor extended step by step toward both sides, and discontinued when the submirrors is reached;

The tharp occoon which Rammitedt uses does not always release to py forms sufficiently as there is an increase of concluter insume between the muscle bundles. It must be supplemented by dissection of the times of the supplemented by the suppleme

the diagnosm of p) foreign any eximination to diagnosm of p) foreign in small, established I tent) seven case operated so by the author there is not one of the total and cossing to operation late. Rammatedt has operated upon fifteen cases with no deaths. These favorable results were due to the fact that operation was performed early becover possible and subsequent treatment.

as given by competent peds trician.

Tacur (2)

Bass, M. H. Atrophis is the Treatment of Congenital Pyloric Stemosis. Med Con. Am.

This report recents several cases of congenital pylowe tenous treated with large dones of atropase as first advocated by Haas. While tropase or bella doma had previously been given in these cases, it had never been given in the design recommended by Haas, who showed that even areaborn infants

by Haas, who showed that even newborn infants ill tolerat doses previously considered tous: Ha ing decided on this form of treatment it is

necessary to reach the minimum effective does as ripidly as possible observing the effect after each feeding rather than from day to d y. It is advisable to g1 drop of the 1 1,000 solution of attropid suphastic in water with each feeding. If the vorning is not controlled, an diltienal drop in y be given with the next feeding. As much as y drops or with the next feeding. As much as y drops or

/ gr has been given in t eat) four bown.
I the more sever types, hopedwine administration has two advantages first, one know jest how much tropine the child returns second, one known that the control of the child return second, one known that the child the child return second, one known that the child the

In case recording, the tropus a discontinued pridically Atropuse alone will not necessarily cure ploce; stenos, but it is useful in controlling the system which prevents the food from possing out of the stomach. It may be considered the most important part of the medical treatment but the samp details of warmth, feeding, foud intake, and hypere must be looked after with the utmost cure.

Judging from his own experience, the author concludes that every case of pyloric strenous should be given the benefit of through course of atropice as detailed it is possible that in certain case suppoil astervention may be necessary but these are few and in the majority brilliant results all be obtained if the Breatment is conscientforth curried out.

Four illustrates case reports are appended

A case of pyloric stenous a tie appendent
A case of pyloric stenous a there are symptoms
due t loss of fluid. Prompt recovery resulted under
treatment. th. tropine and the subcutaneous
introduction of fluid.

A typical case of pylone stenous with visible permissible us or and a palpable tumor. Atropuo was diministered smally by mostile very three loors. After large dones or begin the gain in scipht was repid—y or an it only four day. The treatment is interrupted by hooping cough

3 A server case of pylora strenos ma breast led iniant showing runble pertather and palpable abdominal tumor. Large doses of atropine ere necesary. The jacepti increased during the fart month of treatment alon ly and then ery rapidly. Com

plete recovery resulted

4. A server case of py lorue stenous with projectile
omiting but no palpable tumor. There was marked
evidence of ter loss. Atropuse was administered
up to 40 drops of
poets action per day. Completa recovery resulted in four exist.

A BETAN MD

Cerwardine, T The Diagnosis of Peptic Ulcer and its Bearings on Treatment Brisis V Chr. J. 9, 31, 71

Duodenal ulcer is more common than gustne ulcer Chrome gustne ulcer is more often wen in men than is women but omen are treated for this condition hen it is not present more often than men. Many reflex conditions are treated as gustne.

or duodenal alter.

The utbor states that of all cuses referred to him for the surposal rehef of peptits after during the past year the chagnons was correct in only one thard.

Trobably as per cent of patents recurring medical treatment over period of few or as each at many comments will die if not relieved improvement will die if not relieved improvement will die if not relieved improved. Five hundred cases were seen in the London Hospital in the five year period from \$671 to the mortal by in these was \$ per cent | berty per cent of the deaths ere due to relapse and per cent to per foration.

There is no doubt that the most accurate of the property of diagnoses is the routing may be produced and better miterpostation of the films. Great produces and better miterpostation of the films. Great produces are detected each year, for the films are detected each year, for the films of the films are detected each year. Great produces an experiment of the films are produced as making as a manufacture point and negative diagnosis in 9,9 per cent of cases seen in period of size needs.

The symptoms are classified by the withor as

follows

Reflex (1) viscero sensory pain by paralgeurs
 viscero-motor rigidity and increased reflexes

(3) viscero-central, vomiting and depression Hyperalgers: (to purching of skin) Is not considered a certain guide 3 Muscular rigidity Seen only when the peri

toneum is invol ed extreme rundity immediately after perforation Unreliable often melesding 4. Tenderners symptoms several organs may gre similar reflexes 5 Pain Only came is tension no pain in ulcers

prior t perioration

6 Hemorrhuse Unrehable diagnostic symptom more often caused by appendix or gall

7 Comiting Unreliable except in pylonic obstruction initiated by central impulses in young

women is often hysterical 8 Test meals. Test meals are not very reliable as chagnostic agencies W J M yo states that

chemical and microscropic examinations of the gastric contents were of little diagnostic value in 200 cases studied o Hunger pain. Due to contraction of the in

testinal canal found in all forms of hypersecretion Reference is made to cases of calculus in the right ladney in which both hunger pain and high gastine sculity were present. Other conditions suggesting peptic alter are appendix dyspepsia, the presence of omental bands or other adhesions, and abdominal tuberculous HARDED M CAMP M D

Koennecks, W. The Pylorus and Predisposition t Uleer (Pylorusmages und Ulcusdisposition) Lestraid | Chr 0 1

The author began his animal experimentation with the assumption that there is no decided difference in the general of gastrac ulcer disoderal alcer and peptic ulcer of the jegunum. As, on the one hand, artificial exclusion of the pylones foors peptic ulcer of the jerunum and, on the other hand, strikingly high percentage of cases of postoperativ pepusal nicers exhibit primary duodenal aicer or a pyloric or deodenal stenoms bilateral exclusion of the pylorus as done experimentally (transverse resection of the stomach from 6 to 8 cm above, and of the duodenum to can below the pylorus and lateral anastomous of the excluded portion of the pylorus ith the lower ileum). Following this a Billroth or operation as done. After the Billroth i operation a penetrating

regunal olders as found in one of fi dogs

In second series of experiments seven dogs were operated spon, but in these a bilateral division of the splanchases as performed. All of the animals developed typical callous and deeply penetrating alcers. The uthor explains this finding by the assumption that is the absence of the normal ininistion due to the exclusion of the pylorus, there was a physiological excitation of gustric secretion

The author concludes that exclusion of the pylorus should be avoided and resection of the uleer of the

pyloric portio or the duodenum should be done In monerable ulcer of the duodenum the treatment should consist in resection of the pyloric portion of the stomach including the pylorus followed by the Billroth a operation Gastro enterostomy is rarel indicated in cases of ulcer when the pyloric and duodenal passage is anobstructed LANGE (Z)

Sweet J E Buckman L. T., Thomas, A and Bell, L. M. The Pathogenesis of Peptic Ulcer Arch Surg 033, TL \$37

Medical literature abounds a th theories relativ t the etiology and pathology of gastric and duodenal ulcer. The thors became interested in this problem following the observations of Film, who produced hemorrhagic eronom and ulcers in dogs by the intravenous injection of toxins molated from nimals with high intestinal obstruction. Supraren alectoms was followed by similar lessons

The authors attempted t produce gastric ulcers in the dog by means of () functional high obstruction () a blind duodenal pouch and (3) by looping the small bowel t cause chronic tasis They accept the definition f peptic ulcer as commended loss of tissue in the wall of the tom ach or duodennin surrounded by area of each e inflammatio ind involving ne or all of the coats of the intestine. This believe that most cute ulcers heal rapidly and that brom ulcer it ult from unbealed cute lessons. The broad ty I an ulcur they attribut to the pull of the muscle fibers bout the ulcer margi

Smuthers regards bugh codst as h ng no bear ing on delay in the healing of an leer Bolton behaves that the retention of back n d a high and content of the tom ch cause continued infection and irritation of the tile

I some of their experiments dog the utbors sectioned the duodenum bit een nd to cm from the pyloron, cloud the cut ads and anastomosed the distril segment I the small bowel t the tomach. The dogs surv. ing the operation showed hypertrophy and distention of the blind pouch with hemorrhagic crossom but no distinct ulcera

Another senes of experiments based on the supposition that chronic obstruction leading t low grade malautrition might indix. ulcer forms tion

In this series of nimals the disodenium was t arted upon itself making partial I alius another series the duodeaum was surrounded by

was made with drainage through the dist I see ment from the stomach 1 these cases suggests a ulcerations ere produced

The a thors discuss t length Much r Am that peptic ulcer occurs in regions of the gistro intentinal tract f embryonic import octhe tomach, where plands funt stin lel pd. less.

th gestric glands in the cesophagus, where there are latands of gastric mucosa and in the duodentmy here there are blands of pancrettic tesser. Within such glands, he believes, there is an intracellular activation of digestre ferments by virtue of which the glands themselves and the surrounding themes

are discuted In conclusion the authors stat that it is difficult to explain why bacterial emboham should affect only a circumscribed round area and should produce an ulcer in spate of a rich arterial anastomosts Mechanical abrassons or digestion by gastric junce will not explain ulter formation when w consider how perfectly heating occurs after operati section of the entire wall of the stomach

JOHN W NEWS M D

Portla, M. M. and Portra, S. A. Multiple Peptic Ulcars J Reded 9 3 % 52

Multiple peptic ulcers occur more frequently than is commonly emposed. They may be confined en turely to the stomack or the doodmam or may develop in both 1/2 beress formerly the disamores was made only t operation or at autopey since the use of the roentage examination t is fre quently made before operation. When the ulcers are numerous they are usually of the scate type, but when only two or three are present, they are generally of the chronic variet. Most of the ulcers diagnosed by means of the mentgen ray and found at operation are of the chronic type

In every mentgen ray examination for older it > important, if one is found, t look carefully for mother. As small picers are very difficult t detect they are often mused unless an especially careful warch is made for them

The instones of two cases of multiple peptic pleers re reported in detail

ADDLINE HARTING, M.D.

Mann, F C and Williamson, C. S. The Experimental Production of Peptie Ulcer A 3 ra

923 ITSTN. 409 Acute gastrac or duodenal alcers can be produced experimentally the relative ease and the methods which produce them are numerous. Very little suc cess has been trained however in the experienced production of the typical chrome or subscrite peptic nicer occurring in min. One of the most amportant facts in regard t peptic ulcer is its anatomical and physiological location. An absolutely typical ulcer of the kind occurs only in that portion of the gratrointestinal tract which can be exposed to the action of mineral and This ould seem t indicate that acid is an important etiological factor. The results of experiments deried to administer and for the production of ulter have been unsalirfactory because

of difficulties in its constant administration. In order that intestin I digestion may proceed, all the send which is produced in the storasch must be pentralized. This pentralization is effected by the food and by an affailine methamon located data!

to the palorus. The all aline mechanism counts of three secr tions, intestinal secretion, pancreate pace and the bile If digestion 1 the intestine is t be carried out normally enough alkali must be produced by these combined accretions to nextralize the acid that passes the pylorus. The apper portion of the intestin I tract can be subjected to an and medium just as effectively by damaging the all aline mechanism as by the administration of acid, the difficulties of such administration being this avoided

Experiments a ere curried out which had for their purpose the many or destruction of the alkaline mechanism so that the intestinal tract distal to the stomach would be subjected to an old medium Although several series of experiments were done the main procedure committed in resection of the doodening and transplantation of the paracreatic and common bile ducts int the ileum or drainage of the three secretions of the deadenan into the ileum. I a considerable distance from the point of emergence of the acad from the stomach. After such procedures pleer develops in the intestinal mucous just dutal to the pylorus in ery high percentage of cases These ulcers growly and microscopically present the major characteristics of the chronic and subscute ulcer found in man A method sa thus developed for the consistent experimental production of peptic aleer which corresponded pathologically to the keaon occurring in man

Gospel R. Durect Reunion of the Stemach and Duedenum After Gastric Resection by the Dungisation Method (Die direkte Wieder vereingung en Magen and Duodenum nich Magenruektion durch das Lannanchetterungs verfahren) Zentralli f Chor pas 1 so

Goepel describes uses method of re-uniting the stomach and duodenam following operation for gastric ulcer or carcinoma. This method is a modification of the Billroth procedure Instead of the classical sero serous suturing a sic again of fresh wound surface in the stomach is somed to the intestinal wall that has bittle or po scross new principle which, up to the present time has not found polication in gastro intestinal surgery and admits of successful application also to their por tions of the gastro-intest nel tract

The method is briefly that the line of resection on the stomach and dwodenum is first marked off with the scalpel, as much as possible of the lesse curva ture being included. Then after separation of the sero muscular coat of the stomach along the indi cated line the gastric moccase is exposed through small ractions, the stomach and pylonis are chrysted and the stomach is separated along the bis of the first small mosson. Excess prolapse of the eastne mucosa in the portion selected for the enestomous is cut away Following this, partial excission of the stomach along the lesser curvature a effected, beganing with renauna de all layers. Approaching the are duodeam a to be implanted, the est

the mucous and serous layers are united for some distance so that a closed ring of muccon and a somewhat larger closed ring of serous are formed

The actual antuner of the stome h and deodenom a begun by uniting the free edge of the seroes of the posterior wall I the stomach with the posterior layers of the duodenum in tramsverse direction at the level and sometimes including the edge of the pancress, but had previously been posibed back By second transverse line of entures at a distance of about cm from the first the duodenal well as unsted a th the unner layers of the musculars of the stomach. Both of these tw. row of sutures. are meeted while the pyloric portion of the stomach is still connected with the duodenum. Not until these reas to the posterior layers of the diodentim re terminated and the reciprocal position of the stomach and intestine is thus assured is the separa tion of the duodenum performed. This separation a effected the distance of bout can from the second row of sutures

The duodenum then opens directly into the ring formed by the gastric mucosu. This ring of mucosa as setured to the doodenal opening by circular row of interrorsted sutures. The anterior sero muscular layer of the stomach then falls cull like over the duode um and is joined to the anterior wall of the latter by the row of sutures by the same method as that used in suturing the posterior surface. A fast tero serous line of artures completes the umon of storageh and dreadersum

The author has used this method with good results in several hand ed cases Logaze (Z)

Enderlea, E. Freudenberg, E. and rost Redwitz. Experimental Investigations on Changes to Differmen After Operations on the Stomach and I testines (Experimentelle Untersuchangen orber die Araderson der Verdanzung mech Ungen nd Darmoperationen) Al Bichracke of E.

Experimenting on ten does with gastrac fistule the authors avestigated the effects of the common gastric operations, gastro enterostom and its various modifications, on gastric chemistry

After perfumon of bile and of the collected daydenal ruces through the stomath, only peptic digestion as observed. After exclusion of the pylorus and perfusion of bile and deordered jurces only tryp. tic Distric diseastion as demonstrable. After gastro enterostom no peptic digestion, and only tryptic digestion, as observed. On the other hand, almost the same reaction prevailed in the efferent loop of the gastro enterostomy but there was a lurger bile contest and a trong tryptic digestron

Alter the Billroth 1 and 2 procedures and after exclusion of the pylorus, only tryptic digestion was found in the gastric fundus

Following exclusion of the pylorus, after which the accepty was commercially greater than after the two resections, the digestion was correspondingly ery cak since the reaction for peptic and tryphe

degestion was also unfavorable. In the pylorus there was only peptic digestion

In general, the changes in the scidity of the chyme corresponded to the impairment of protein direction and the secrease in fat direction in the stomach

From the experimental findings the uthors draw the conclusion that exclusion of the pylorus acrording to on Enchberg should be bandoned, and that the resection methods with the re-establish ment of continuit) (Billroth : transverse resection) are preferable t all others Il conceptore (Z)

Develor, J. Benign Turnors of the Stomach A S g 923 lars 1, 580

File cases of beingn tumors of the stomach are reported one of multiple polypous three of papellary accroma (one of which had undergone malignant degeneration; and one of fibroms. The ages of the patients ranged from 33 to 67 years

The benign gastrac tuntors most frequently reported are the various forms of my omata tumors appear to train the largest size Multiple gestric polyposes is the least frequent growth. The my omat and fibromyomate may become cystic or

undereo sarcomatous deseneration There is a histologic difference between the true

multipl polypoid tumors and the papillary adenomate. A pre operative diagnosis of grains polyposis is made infrequently as the smaller tumors cause no symptoms. However the roentgenographic appear ance and the achilus gustrice with the egg white muces in the la age return are characteristic of the condition. In cases of other forms of benum tumors the diagnosis may depend on the presence of a palpable growth, angenus du to repeated hiemor thage or the ppearance of a portion of the tumor in the courtes, stool or la ago return. The ymptoms of pyloric obstruction may be caused by a turnor nea the pylorus T o cases of a tunanscenpon through the pylorus have been reported

Except a cases of multiple polyposis, nothing of disapposite temoriance can be learned from gustric analyses as the findings range from ach ha t hyperacidity Except in cases of tumor obstructing the pylorm, the \ ray examination show bour residue less frequently than in cases I car cmoma. A large tumor produces the same \ rat pectare as carcinoms Occasionally a persustent defect may suggest tumor, or an extragestric comor m y cause a defect in the gastric outline

a summary of the operative indications is difficult as beingn tumors differ in structure, size, location, and character Surposi removal of the tumor should be done when indicated by the ymptoms or when the diagnosis can be made either before or at the time of operation. With the exception of cases in which implitude tumors are present, the technical difficulty is usually less than in malignant discrete because of the absence of infiltration, ulcerations, and metastases in the regional plands. Recurrence will not develop if the tumor is thoroughly removed

E C ROSITIONER, M D

Bohrmansson, G On Acute Purulent Processes in the Intestinal Wall. Contribution to the Knowledge of Phietmonetta Entertrie. Acta charact Scand out It 417

Limited nurulent processes localized in the intestmal wall, ot proceeding from the appendix or a diverticulum, are not so fare as would appear from the literature on so-called phleemonous ententis The difference between these phlesmons, in limited sense of the word, and other purplent affections of the intestinal wall is only gradual. The disease may appear in any part of the intestinal canal but is most frequently found in the colors. It is usually of entene origin, although a hematogenous infective modus cannot be densed. It varies considerably in different cases, oscillating het een a violently acute course and traustory forms of the chronic inflam matory tumors. The process may beal spontage only at any stage without leaving any after trace or with fibrous occupation and stricture of the luman

In several cases a mechanical insult may be presumed to have established the port of entry for the infection. In different cases different bacteria have been found as cancel gents. In the more acutely progressing cases streptocorci are probably the

The macroscopic pacture of a phiegmon of the intearing wall is so characteristic that in most cases durances can be made without difficulty Pentonetts is not alse ye present but when it develops the remonal lymph ducts are involved. The margin between the diseased and healthy times is seldom sharp, and the microscopic margin usually extends shightly beyond the macroscopic margin. A chancal theroose has never been made before operation The symptoms vary considerably ecording t the localization of the condition and the viruleace of the Causal bacteria. Operation is always indicated if the patient's condition will allow it several cases of spontaneous healing are known, the results of resection speak in favor of this method of treatment when it is technically possible

CARL R SHEWER, M D

Brasunia, K. Developmental Anomalies of the Intestinue as Cause of Intestinal Obstruction (Entwicklungsstorrungen des Darmes als Urache von Dermy erschlose) Desirche Eische f Cher 9 1,

dans 237 The various malformations of the intestines and mesentenes can be understood only from their embry clogical development. Among the most supple forms is the mobile current with common mesentary for the lower strum and ascending colon which favors rolvalus and invagination. When the common mesentery is well developed, axis torsion of the entire small intestine with the ascending and transverse colon around the axis of the common mesentery and extensive invagination of the occuminto the large intestine may be observed. Volvalus of the augmoud flexure is also t be considered as a primary developmental anomaly of the large in testine. Deficient fastening of the transverse colon to the stomach favors volvulus of the transverse

These various anomalies ha e surgical interest as they render the dismoss f abdominal democrat ery difficult is most cases they are recognized only after the abdominal cavity has been opened Baser (7)

Long, J W Th Value of Enterestory in In twiting Obstruction Terry Sick J M and ETW. 606

Enterostomy is industed in two widely different pathologic conditions, one characterized by starva tion and the other by toxerms and stress. As example of the former is the case of inoperable carcinoma of the stomach intusted near the cardin. and an example of the latter the case of obstruction lower in the alimentary canal

Enterostomy as done both to prevent and to reheve obstruction. In bowel resection for any came, the insertion of a tube in the proximal gut constitutes the prophylactic type of enterestomy Enternations is not advocated to the exclusion of other operative procedures by which the primary cause of the obstruction can be removed without

causing too great trauma In the paralytic type of ileus neither enterostomy nor any other operative procedure is of wall It should be born in mind that, if unrelieved, the mechanical type of ileus soon becomes the paralytic type because of the advancing sepas and tonemie

In doubtful cases it is a good rule to operate, as without operation death is certain and the opening of the bowel and the use of patustrin may stimulate the intestine to activity

It is rarely necessary to remove the national from his bed or to give general assesthetic.

By far the best, the simplest, and the safest plan

at surround the presenting coal with game to prevent possible staking, apply a pursestring suture of fine chromic gut, puncture the coil with a scaloel or a small thermocautery (Long praiers the latter because it prevents bleeding and eversion of the edges, seals the layers together and promotes the nitreate beating of the fatula) and, after type the pursestring suture which invents the edges, introduce another similar suture. It is well to eatch the tube with one of the sutures to prevent personalist from polling the gut way from the twhe

The most important tem in the technique is to secure the omentum about the fistule and take The xieal plan as to pass the tube through small hole in the omestum. If the omentum is thin, it should be bunched about the fixtule. In any case, it must be festened to the gut by two or more satures. The proper use of the omentum around the fetale meures prompt closure after the withdrawal of the tube Long has had member of cases in which there as not one drop of icalians

aft r the tube was a todicase. The intention corred with concition, may be attured to the corred with concition, may be attured to the real periodection of desired but Long believes in a smally better; I place soldowing name between the concition and the peritodecim after removing the firm peece of parser. This will quickly promot divisions and tocidentally will ct as a temporary reperficial drun.

The mortality sollo usgenteration) is necessarily high and always will be because the operation a usually done only in the most despirate cases. Of each patient subjected temperation upon 100 fair recovered and three died of annety three operated post un the period from post 103 fifty one recovered and forty to ded Therefore in a cases there were fifty art recoveres and forty free deaths.

CARL R STEELER M.D.

Carina, G. Experimental Research upon Artific al Stenoses of the I restine (Ricerthe sperimental edic stenos artificial del intestino). Aun stal d lar e 1, 7

Following the usual methods for entere anastomeous the interestant contents show marked therefore, to follow the normal route rather than a comparison of the content of th

I the surpoid clain of the University of Bolognia, Cavina carried out fifteen experiments on dogs to test the size of the ligature methods and ligiture maternia. I it experiments institutial stenois as caused by metal ring in two, by cetter tage in three by appearance strips and in free by an extra mutuent plastic. The interingal muon was larred lateral austronous of its loops: this double lateral lateral austronous of its loops in double and the strips of possible of the strip of

In experiments in which the trempt as made to cause tensors of the ideas by meass of metal ring or cotion tape t are found that the intestinal numer returned to practically, normal after abort period of time. If we discovered she that intestinal period of time if we discovered she that intestinal the contract of the contract of the period of the period of the period of the contract of the contract of the contract of the contract of the period of

The experiments executed according to the Bogol jubod technique showed that ligaturing the intestine with a living appreciate strip gives much

better results than those obtained by means of inorganic materials. With an autoplastic strip an intestinal stenois can be obtained which, even if anatomically incomplete, is very marked and per saist for a long period of time—in the suthor's experiments, from three to five months. The strip does not puts through the intestinal wall, but like II other free grafts above a tendency to undergodegeneration and necross:

An extra-mucosal plastic caused only a temporary very sharp occimion the intestine rapidly became natent

Of all four methods of ligating the intestine the aponeurous strip method gave the best results W. A. Barress

Haudek, M. Th. Reliability of the Roemigen Disgnoss of Duodenal Utest (Zur Frage der Verlassischkeit der Roestgendiagnoritk des Utest duodem) B'sen kles Franske 9 xxxv 987

In one and half years Haudek has made the rentificational diagnosis of duodental idea in seventy cases. In thirty as of thirty eight cases the diagnosis was confirmed at operation, but this was sometimes possible only after resection. The rentificational diagnosis was bused on direct symptoms, these being () but beforming () kenseed intensity of the shadless and (c) transfery the control of the cases, was seen by Haudek in only so per cent on the procedure of the cases, was seen by Haudek in only so per cent on the procedure cast must have the control of the cases, was seen by Haudek in only so per cent on the procedure cast must have the case of the cases.

Of the total umber f ulcers observed, 35 per cent were in the middle repon of the tomach, 5 per cent were in the middle repon of the tomach, 5 per cent were in the doodenum For filling the doodenum Haudek employs concentrated watery suspension of barrum The patient is examined in the erect position, but if accessive is first placed on his right ack with his pelves iderated. Casasset 32.

Enfleid, G. D. The Relative Value of Y. Ray Fridence i the Disgnosis of Duodenal Ulcer J. Radial 9 J IV 7

This article is based pon forty cases. The analysis included an exhausti e history—careful physical examination gastric analysis, complete blood examination, including a Wassermann test.

urne analyses, 'test for blood in the stools, and an \ ray examination of the entire gastro intertional tract including the gall bladder. The confirmation of the diagnosis rested upon the prompt and decided response to medical treatment.

A typical uter hatory was given in 45 per cent of the case in 35 per cent more the history although not typical as nugrative. Thyracal cas manston was of little wable the only up being epigration tendences and rigidity in 10 per cent of the cases. Gastrie analysis was conducted by the frictional method curves typical of utleir were obtained in 37 per cent. Centul blood was found in the gratine contents in so per cent and in the stools in 1 5 per cent.

In the X-ray examination no per cont of the cases were found to have a persistent cap deforming In the other so per cent the evidence was indirect, that is, no normal cap was obtained by postural or pulpatory efforts, and hypertonicity hyper

persistant, and approximent by see present. The s ber before is the X reasonaimation deserves first place as the dagment of dendered interference is findings or based open two persists of persists of the persist of the persist of the persist of the persistency of the increase and the surrounding inflammaticy some with its limitated serve endage. The heatery be regard as greated in importance.

C. H. Heacock M. D.

Diequé, L., J. A Case of Carcinematous Ulcer f the Duodenum (Em Fail on Ulcus carmona moun duoden). Intà f. kortana gair 913, XX,

In the case reported, that of a for-year old man, a diagnosis of disorderal silver with perchaodenal adhesions was made on the basis of the Instory courtle harmorthage and the remartgeographic finding of enlargement of the disorderal bulb with pockets formation in the feater curvature and a constant hour-gives construction in the greater curvature of the broth.

Operation aboved the presence of a funor opposite the papilla of later which had in seled the pancreas. The course of the disease confirmed that assumption. Unfortunately a postmorter examination was not made. The reentgenographic finding was caused, not by an after noche but by polet formation produced by disease. Therefore, the condition as a source of error should be horse in mind in every case of disodenal uther weather there in which there is no state of the condition of the condition of the condition of the control of the condition of the condition of the term and then will appear only intermittenily. Constant courtly helden in represent accusation.

You Remark (A)

Mann, F. C., and Kanamura, K. Duedenectomy: A Report of an Experiment Four Years After the Operation J Leb & Clos Med 1913 in, 5-3

The duodenum was renored from a dog and the continuous of the garton attention least restored by an old to-sed assurtances of the Jennum to the mach. The first portion of the jergmun than se smooth the position normally occupied by the discreme. The common his dated and pascretic ducts were transplanted into the transposed portion of the jenume it approximative the same distance from the priories and from each other as they be covered normally.

The experiment is of interest because 1 shors (i) the effect of removal of the disoderum and (i) the effect of transplantation of the common list and pancretize ducts. The animal remained in posterically animal animalized in somethic egit for four peans following removal of the disoderum, and then in no reason to believe that the disoderectory would

ever have affected its beauth of it had been allowed to have longer. The emperiment therefore definitely proves that in the day the desolutions not essential to the maintenance of the or good have readpeared determentation it may have cause readpeared determentation it may have cause readpeared determentation in the part of the contract of the pits tremander of the intention of the belt and pan create durits can be carried out exceedibly so that these glasses will remain practically mornal for a long time.

Benum, A. Frimary Intertinal Phileginon (Zerkenatum der prammeren Darmpidegmone). Bedr z. Mes Chr. o 1, curvut, 4

The ather reports a case of intestinal phiegmon in man jy years old who was admitted to the heaptful as the diagnoss of preedictin has pain previously be fall been it leed in the abdoment of the second present of the sec

soted on deep pressure.

At operation the appendix as found wormal, but the lowest loop of small intestuse bout kinds beautiful from it entrance into the execum presented a definite the/kening of its will. The scross married we defined and the measurer beauty infliented with old withink kenn. Diput examination will be written the state of the contract of the contr

After the operation the symptoms improved somewhit, but the senation of pressure in the belomen remained. At second operation t as found that the thickening of the trutue had decreased out the stress and patency of the price account. The appendix however was greatly distincted and therefore was removed smooth remover followed.

Intestinal phiegmon simils has an acute on-et and a poor prognosis. The chronic cases: Iter encountations, may finally go on t complet can but the again of sterious in the aff cited intest nat from persual.

Matthews, A. A. Megacolon \unit w Vini

Matthews reviews the literature on megacoles, and reports its cases. Although the disease is described as early as 8 3 by Pairy Hunchipyrang splended monographs on the sobject tached as name to it. In the arthod op allowable distations of the col concentium are the most apper.

condition Tinney in 1908 found so8 articles on the subject and Dowd reviewed the literature up to 1911

The cause of megacolon is still unknown. The majority of cases he metacocompensation organ. The magazolon cases as infancy. Cases occurring in solid in agravated type of chronic constipution (the the cutter olon and symmond may be un-ford.) Immorry states that the signoid was theirly if fetted to per cent of his cases. Ippopulmat by three males it one female are flected. There is a light familial tendency, as it o cases in each of several lamilies in been reported. The degree of dilatino (the large bowel varies greatly. Cases he chem reported in which the colon or tained from 4.1 to lutter of freed marketin).

It seem probable that a nety of factors are responsible for the dilatation of the large box 1, via congenital in perturbily of the mascular filters above the return as non-mally long mescular filters above the return as noomally long mescular of the original changes constitution, mechanical obstruction thresilium dischange and hyperthology of the colon sprate construction of the primarie am neurophile dilatation in hypertrophy et

unusystem chainten appetrops, et. The hef symptom of megacions is obtainate cuestiquison boxel movements occurring only once exist. The occitation is secured as it abdominal districts emacution, fedlors of the breath, cold champy also hos blood pressure orbibe bottom, an termation titals of duriber and it makes do the first has been fedlored. Chamel the control of the security of the control o

I the majority of see megaculous best treated unpealls sinc medical treatment selds only tempor in rubd. Surge I treatment sums it the more I i the factories segment of large boxel of la

The thore first we that of hos 5 can of 50 hos head halvast constitution or 1 life. The me gred act obstigations. The bloom he was edited to deal or the me gred and the prisent of one always at topen the theory of the store of the found dilated hears they are the store of the found dilated hears they are the store of the found dilated hears they are the store of the found of the store of the

the operating t ble. The large box I fill of the t. alidemen. The premits as terms of and recotors readshated. Whet the operation controors quantities of freal material, or expelled through the colutions operate. The great recotions then tends improved.

Frth, D and Finyfair, K. Contenital Idiorathic Dilatation of the Colon Arch Redol & Electrather by 921, 2214, 3

The authors report a case of congenital follopathic distation of the colon. The report is Blustrated with receipreograms demonstrating the condition. The patient is as boy of 10 years with a history of constipation from burth. The stools were hard small. Frequently the bowch were not open if 1 as long as three cells at a time. The prittent was selden but in a fin state of muttinon. He protein was produced to the state of the printing of the production of the protein was produced burd forces the use of an orange as felt. I large hard mass was pulpared in the left this flows. The curcumference of the abdomen was 1 in 2.

After denancy of the lowed with an enema, beautility and as given and X-say examinations term made it intervals for tredire days. During the time to boxeds were never open. The tredit and the the boxeds were never open. The foot hours, and later the descending and transverse colon. Between the airmond and descending colon taken was default kink. To subsequent layout many and adjustment of the foot and the foot of the foot

Walcher suggested that possibly the dilatation of the colon may have been related to imperfect de elopment of the splinghous perves go en if at the level of the half criebra.

CARL D NEEDBOLD, M D

Carman, R. D. Roentgenological Signs of Cancer of the Colon. J. Robot. 9 5 iv 147

The a thor summarizes the findings in a series of 340 patients the cancer of the colon examined and operated on t the Mayo Clinic Cancers of the rectum and rectourmout ere not included

The same histologic forms were found as in the tomach numer, the cylindrical cell adenocar cinoma the small cll, and medullary form the hard scarrbons arrety and the mucoed or colloid curcumoms. The medullars cancers gross rapidly and tend t lough deepl. The scarrboar cancers tend t encircle the bowel, producing the n pkin ring form and alcerate only superficially Lane considers the most common locations of cancer of the colon to be (1) the ascending colon about the level of the crest of the ilrum (2) the transa erse colon near the hepatic flexure (1) the splenic flexure (4) the descending color t bout the keel of the crest of the lum, and (5) the juncture of the pelvic and this segments Metastases from cancer of the colon are much less common than metastases from the stomach, prob ably because of the distribution of the lymphatica of the to organs. In 50 per cent of all cases coming t autopsy the growth in the colon had re mained local

The author prefers the opaque enema since the i rium meal h m n die da antages in it use for

example (t) its tendency to accumulate in the cocum or rectum (a) the renested observations recurred to visualize the intervening scements, and (3) the strugging out of the burium meal in an ir regular fashion suggesting pathologic alterations in contour. The routine at th. M yo Clinic is as

The nations is not allowed to have any supper the evening before the examination and is given 60 c cm of castor oil The next morning the bowel is cleared out with a sourceds enema. The enema is made up of 24 cm of barrum sulphat held in suspension by condensed milk and mucilage of acacla, the total quantity being a liters. This is sarmed to body temperature and administered to the patient in recumbent position, with the container elevated from to im above him The enema is watched as it fills the colon, and the abdomen is manipulated, if necessary to assist observation. One or more plates are made for confirmation of the findings and record, but a diagnoses is never attempted on the

roentgenographic findings alone Roentgenological signs of cancer of the colon are the filling defect and obstruction to the enema. The filling defects vary wadely, depending on the sur and character of the growth. They are due to the satracharacter of the growth son of the tumor into the intestinal lumes, infiltrative stiffening of the intestinal wall, and local

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speam excited by the lesson Incomplete obstruction cannot be differentiated from a slowing of the enema due to ordinary causes Surgeons at the Clinic have observed that a marked stenous may be found t operation when the roent genologist has not noted any obstruction t th enema I complete obstruction, the enema may termmate as a conscal projection or be rounded of bluntly If the stenous is marked, the box el pro-u

mal t the leven may show some dilutation Palpation for masses is also part of the roentgen ological examination, in order to determine not only their presence b t also their relationship to the changes observed in the contour f the colon A mans corresponding to a filling defect or to point of obstruction increases the certainty that lemon of

the colon is present

Slight local irregularities due to localized spasm, haustral tonus, or external or internal pressure are normally so common that t is usual t regard them senously yet they must be excluded if roestgenographic interpretation at be given Thacan be done by repeating the examination after the administration of antispesmodics. Apparent filting defects may be produced also by gas in the bowel or by pressure of the spane on the transverse colon Tumors outside the colon may indent is outline but manipulation will usually exclude them It is very difficult to differentiate bet een cancer

of the cacum and tuberculous, actinomy cous, and appendicard abacess. The bience of taberculo-sfrom the lungs is of some also in evrieding this kerion in the colon Diffuse ulcerative coliticas rurch mustaken for cancer but I the cond son is localized

is extent, it example be distinguished from the latter with any degree of certainty Peridiverticultie also simulates cancer very closely but may be excluded if barrum filled diverticula are demonstrable. Adhe mons which cause obstruction or a filling defect are

VERY TATE Finally the colon may be the site of lymphomacome or benum tumors, from which cancer cannot he distinguished. In a per cent of the cases reported by the author, the roentgenologist failed to discover any man of a lesson, probably because small stregg larities of the colon are usually meaningless

The author summarises his findings in the series of cases and his impressions are as follows

More than 90 per cent of cancers give definite

menteenological evidence of a lenon 2 A diagnosis of cancer cannot be made on roenternological findings alone

 Cancers of the crecum are more apt to except datection than those in any other part of the color.

4 Ring cancers are the easiest to detect. All cases of carcinoma of the colon should be explored, regardless of the roentgen-ray findings

Foreier H. The Appendix and Its Rôle as Masquerader Med T mer, 9 3 lt, 57

In the pre-operative care of ppendicitis catharas is contra-indicated, nothing should be given by mouth, the patient should be placed in the Fowler position, the bowel should be cleaned by a low

sospends enems, and morphine should be withheld void masking the symptoms It has been the utbor practice to maintain the patient in the Fowler position before and during

concretion and through the convalencence patient is even transported t the operating room

in this position A tabulation of eighty cases treated in the period from 1898 to 9 5 shows that, urrespective of the type of treatment, the general mortality of appeadicitis with peritorities has been reduced by 55 per cent. The versge mortality was 66 per cent When postural dramage was employed t was 46 per cent, and when postural drainage was not em-

played, 8 per cent The whit cell count and the differential count re of great importance in chargooing the progress of the lesson A cuse is reported hich suggested renal stone. On the buss of the autory and the ass decided that there ere bands or veils con stricting the ascending colon. At operation the annendix was found t be retrocercal and ound around the ascending colon. Its tip was just below the kner The cacum as practically aborat, the terminal ileum being inserted int the colon in the form of funnel like expression Absormables of position of the carein are the

most frequent cause of aberrant types of ppen diatas conclusion the author

articles on congress l

and colon from the hterature and reports second case bootly I Enware Brancos M D

Speed, K. Appendicitis in Children 14 Years of Ass and Under Am J Sars on Exxx. 0.7

The author gives a comprehensive study of 313 cases of appendiction in children 14 years of age of younger. There were 175 hows and 178 girls. In 83 per cent of the cases the condition was acute and in a per cent it was chronic. The uthor believes that many chronic cases are unrecognized as to

the parents the symptoms are muleading Many of the chrome cases revocated were discovered after the downstration of an overdose [castor oil, a prolonged period of constituention, or diarrhose. which led to acute mandestations. The pathology in these cases is decidedly uncertain and unreliable three cases in the series foreign bodies were found in the appendix, and in 10 per cent there were fecolithe Fourteen patients had dearthers. either before or after the operation, in these the prognou was poor Bacteriological examination showed only the turnel intestinal flora I some cases apparently metastatic infections such as masterdita, paretita, and other cute abacemes, particularly in bones, have followed moendicities In about a per cent of the appendices examined, the strentococrus hemolyticos as found. The author surprests that it may have reached the opendix by the blood stream. Because of the comparat vely slight development of the omentum in children, the omentum usually cannot be depended upon to render much assistance in walling if the infective process. In the author' series of cases general perstocitis was present on admission to the hospital in 6 per cent an intra-abdominal abecess was found in 16.5 per cent, the appendix had contined in 27 7 DCI cent, and the appendix was experences either ruptured or floating in pus in 3 3 per cent

enser repeared or footing in pea in 3,3 per cent. The blood count did not give great deal of information as the leneoty to count was high of the cases of unreplained ppendix as well as in those in which rupture had occurred. However a low count was found nine times as frequently in the former.

as in the latter

There ere structum deaths, a mortality of 6 per cent All of the patients who der had had cathers before their admission to the hospital. Lighteen of these has a pressue or reputed appendix, and mae had general perticultie. In 1s cases demany, as poursely madeemate. Four deaths occurred as poursely madeemate. Four deaths occurred late sollowing secondary operation from does to mostile after the first. One deaths was trimbuted to either marsificass. Of the guarteen first cases, eight were treated by drainage above, this in eleventhe popendar was removed and drainage them mattated.

The yraptoms vaned considerably Benefes cramp kin bloomnal para, vomiting, abdoom nal tenderness becoming localized in the right that fosts, and fever many of the patients experenced a chill t the onest 80 per cent show ed sweat

ing, and many had unnary symptoms, cough con-

In case of absents, the author favors dranage as soon as the condition is recognized. In some of the cases with absents and vomining lattersacception is suggested. Pain is of little as some of the case when the condition is suggested. Pain is of little as posts to proposalic value. In making pain, Allet the aspending suffer is not been a far-pointly as in dults, a subsidence of the symptome of the case when the case when the case when the far-pointly as in dults, a subsidence of the symptome of the case when the far-pointly as the case of t

Amety-free per cent of the children had been even a cathertic usually castor oil before admission to the homatal The author believes that in so per cent of the cases thus is responsible for runture before the national is seen by the syrriging. He believes also that practically all cases should be operated mon immediately. The technique must be flawless as the patient's resistance is lowered and he is susceptible to accordary infection from contamina tion. In cases of appendices! becess it is the a thor's practice t drain toward the iliac crest unless the mess ments down toward the rectum. when rectal drainage can be instituted. The surreon should not attempt too much Frequently it is advisable merely t institute drainage. The abdominal wound as often left wide open expectally if peritonitis is evident. In many cases. Mikulica or modified Harris drain is used

Draining over a long period of time is essential unless the draining of pos ceases. In addition to free draining, the Towler position and the maximum migration of fluids are essential in cases of periodities. Death results usually from a combination fashock and forzemat. Hason M Caser M D.

McConnell, A. A. and Hardenen, T. G. Abnor multites of Fination of the Ascending Colon The Relation of the Symptoms t. the Amsterolcal Findings. Bril. J. Surg. 213, 2, 53

Stimulated by Wangh's article on the mobile scording colors and realing the possible importance of Wangh's contription in bloominal surgery, the utfors have decided to observe the scending colors in viery beginning colors are need to determine whether its austionical condition is in any way responsible for the symptoms or discuss found. The report I the results of this investigation is preclif by a description of the normal ascending color, the manner of its development, the variations from the normal which the thorn have encountered, and the symptoms associated with three synatoms.

In case of mobile secending colon the authors is not performed coloneys mines a definite ana tomical connection could be traced between the mobile secreding colon used the symptomics. In some of the cases reviewed the operation was not properly performed. In one case a carbolic wasp placed in the wound alter faulty closure of the pertunerum cased mutation of the pertunerum cased mutation of the pertunerum terror of adhesions under the pertunerum cased mutation of the pertunerum terror of adhesions.



ith enlargement of the liver 1 in below the costal margin. The Wassermann reaction was points. The patient was cured by mined treatment.

Jaundice of lactic origin may occur (s) during the food stage of the disease (typhintic hepatitis) (f) from cute necrotic hepatitis (s) in associated are the responsant herapy Jaundice associated with apphenium treatment may be due to () the total of the studential may be due to () the total of the studential may in the sparochattes infecting the liver or () assembly possible suffering the liver or () as the liver of () as the liver of

1100 The mundice may occur during soon after or late as ten or twel e weeks after treatment. Lat paudice is not infrequent and in the cases of pandiced patients batory of previous araphen amin treatment is extremely important. H rmson states that jaundice occurs in 6 per cent f the cases of syphilis during or subsequent to treatment with record preparations. Todd has observed that it occurs more frequently in the winter when the diet is rich in fitte and proteins. Physical exammation shows hepatic enlargement in from 40 to per cent of the cases, but later in the course of the disease this tends to decrease. A decrease in the size of the liver during the mundice is against common duct obstruction from at ne

The cheese is smally atchek but produced impriors and marked februle reaction may be present. Occasionally the temperature may be present. Occasionally the temperature may rise to 3 or on degrees F and childs nauses and open the control of the co

The verige duration of the justicle a above four each soft may persist for several mouth affect recent writers agree that the pathology is appointed by the control of diffuse introbbut bepart in the probably that of diffuse interiobuts bepart in the control of the control of

Yyuin, V Melama with Gall-Stances (Blutage Stackle ber Galleostensen) Cases felt freih 0 3 lxn, po

The relationship bet een cholehthiass disodenal ker and ppendicits explains why in cases show

ing symptoms of cholchithasas, melema may appear and render the diagnosis of cholchithasis doubtful This finding will all ya be explained by operation. The author reports a case in which intestinal hemorrhage followed severe calculous colic. At operation, the symptomic colic all the symptomic found, as it had probably besiden in the six week interval betteen the hemorrhage and the operation.

Piersol, G. M., and Bockus, H. L. A Study of the Bil Obtained by Non-Surgical Billiary Drain aga, with Especial Reference to Its Sacteri alogy As J. U. Sc. 9.3, cky 485

Hollander E. Experiences with Non-Surgical Billiary Desima (Meltrer Lyon Test) 4 m J If So 923 clay 407

The method of biliary dr mage instituted by Lyon and brased upon Meltier' hypothesia in a scul and pract cal procedure the bile obtained this w y is derived from the common bile duct the gall bladder the hepsite duct, and the biliary capillaries in the order named

The duesase to dition of the gall bladder and the bile ducta can be recognized by microscopic and bacteriologies of do of the blue. Because of its bland action on the diodenal micross, 5 per cent peptone is suggisted for diagnosis instead of strongly his pertonic mangements sulphat solution.

In chronic cholecy stitis normal reaction may be present. The findings obtained by non-surgical beliant drainings should be correlated with other chinical dat.

Survey Kary M.D.

Bernsoff, E. L. The Change In the Blood Picture Following Spinesctum; Result of the Begin ning Disturbance of Internal Secretion (De-Verandering des Birtbides nach Soleneltonia ciae Folge der einsetzenden Storing der inneren Schiebon). Abmitichristig Med 9 17 8

I the main the results of investigations if the blood in min flee replicationary have been uniform All investigations from the first by H rimann and 5 quez i the last, the very complet work of 5 childre showed that in all persons he had under goos epienction) the number of lymphocytes in creased not that after proximately fire months

con ophilia 18t 6 per cent appeared. There fore it may be considered as proved that the spleen does not it by rt in the fination of monounclear and polyn clen cells. The increase in the number of the himpbook is explained by Kurkoff and other estigation as follows.

The spicen participates attensively in the forms too oil implocities but if its removed, as increased demand is made you the lymphatic glands and a compensatory glandular hyperfunction takes place, which maintests itself anatomically by swelling and enlargement of the glands.

If w can t be explained that the removal f the spleen hich forms oul small part of the lym phritic t sizes call forth uch m rked hyperfunc



before on 1 sys soft and a thout tendermess upon presents at humanical pipinston. As the enclose results at limiting and pipinston at the enclose will be attented in the permetrial (seene and sull not rune higher than the upper edge of the true pipins, there will also as the seene of percession between a and the zone of crudate in pendentia. An appendicular absects writes in situation coording to the situation and length of the appendix

The symptoms of suppurative pelvic peritoritis are never as cute as those of scute pependicitis. The history less duckons the fact that the patient has not been good health, has hed ducknings for some times or that her symptoms dut from 'vint a midwif. There is usually dynama associated, with the series of local peritogent irritation and httle.

if any fever

The pen ppendicular exidate, if cry old may be easily confused with permetric exidat cape cally if it extends into the broad ligament tow rd the uterus.

A retro tenne hematoccie (Bevang a rupi red tabel pergnancy ma similar pelvin productis but in the latter there is also a tendemen over 126B mey's point and no pain in the or in a repion the crivia is not softened of the terius is not larged Pelvin peendottis may similar it susted pedicle but in the latter a temor ma unruffly be outlined and feer at the nonettis rare.

The mortality of pelvic prendicities is probable no greater than that of the that type but the sump forms are usually more senere and the indications

for tervention are more present

There is som question as it whether in pregnancy, the ligiment of Clade is put indice teasion or in relaxed but there is evidence that pregnancy aris mechanically to favor the recurrence of tracks of approximation ones. To have adhesions between the approximation and the genital organs. It is possible that adhesions between the approximation of the tube may be cause of the light propinary.

Roscot jano MD

Cotte, G and Jazditch D Petric Varicocale (Contribution & 16 and d attrovale pel sm) Owner of shall g 3 ms so₃

The utbors state that although pelve renconcile as described by Rubet and Devalt more than say varing so I has not rectived the recognition. I deserted to go to laparotomise they found even typical cares but only to these could have been diagnosed bottom on the ther hand in the recent cases diagnosed as pel is variousely that is not found at operation. Secondary surfaced and the deserted of the secondary of the period of the secondary of the period of the secondary of the custom that they have been removed.

Perior ancoccie is smally found in women in the early thirties ho has had several pregnancies and more or less pelvic congestion since puberty. The symptoms are puin the lower belomes and around the kelney, which extends done the legs, as not of weight in the pelvis and more or less cancof weight in the pelvis and more or less canc-

rectal tenesous. Walking anasoning, defrectation and sexual intercourse increase the symptoms. They become more severe also just before the mensional period but are releved by mentination. With irritation of the chronic there is increased sexual desire but at the same time there is uncreased sexual desire but at the same time there is true despression. The mensional flow is increased and prolonged and often presen take monthly. In many cases there is watery lenorthics.

is watery importantes. Upon examination the interus is found to be enlarged and usually in retroversion. A pathog comonic upon of the condensor is soft, compressible mass in the lateral sides of the cul de sace which is noted when the patient is standard but disappears.

when the recumbent position is assumed Of the authors seven cases, only the were operated upon more than two years ago. In every case the symptoms disappeared after reaction of the utero oranta years.

While medication may reliev the symptoms for time the only our is operative interference. The operation of choice is resection and ligation of the venus in the limbo covarian planment. In the authors opinion, this ill not harm the ovarian function. The position of the trens should be corrected but nothing should be done to the tubes or ovaries already there are diseased. Roccom proposed.

MISCRILANEOUS

Carris, A. H. The Management of the Female Urinary Bindder After Operation and During Preprancy. A Further Study of Residual Urine in its Bearing on Urinary Trace Disturbances. J. Am. M. Am. 1931 https://doi. Toc. author cumplassures the fact that the normal

blader a highly censuant t Infection and that write I batteria tend to do no harm unless there is the sided complication of readual urine. It is this factor that counts for many otherwise merpheable infections of the unnury tract following operation of developing drung preparator. Without either and the side of the cathetinations, but is very frequent a kent catheternation is done reportedly.

The author plan of treatment was studed in 305 female patients subpreted to major responsion to 305 female patients subpreted to major responsion processas, extending operations involving the gention immary treet and conditiones which may be quited on catheterination, if per cent required in a study six per cent of the patients required at their required it there and if per cent required at their required it there are of the 60 per cent out requiring catheterinations of the 60 per cent of requiring catheterinations of the form their treet of the subpreted for reachast number of the subpreted for reachast number of their subpreted for reachast number of their per cent and unone was then any subpreted for their per cent of the subpreted for t

tients catheterized twice 17 per cent had residual wrine and a few had shight injection which down-

peared more or less promptly

Of the soo patients who were catheterised many tumes, residual urmo was found in de per cent Return of the power of complete evacuation of the bladder usually requires from four to eight days. the amount of rendual trine decreasing gradually

I the plan of treatment followed by the author the catheter is used only when necessary for the rebel of distention. If the catheter has been em ployed only once or twice no further treatment is indicated unless symptoms of retention or infection appear Il more than two catheterizations have been accessory the patient is cathetensed daily immediately after one granation until the rendual grane has described Residual urine of less than 1 on is considered normal if free from pas. Hexamethylenamin is given in quantities sufficient to reveal for mablehade in the more

In the uthor's openion many of the cases of trichtes in presmancy may be due to escending in fection from residual trine in the bladder. Many women with this condition rive history of having accustomed themselves to resist voiding for long periods of time. Others mention mability to empty the bladder completely after the oract of pregnancy or after the uterms rues out of the pelvis. In still other cases the presence of temporary cystocele

may be responsible.

The laboratory examinations showed scattered staphylococci and diphtheroid bacilli in the once cathetensed patient, while in the error of those catheterized repeatedly, colonies of benth of the colon group were found in addition. The patient with reprinal urine showed the greatest number of lepeneytes and bacteria but these disappeared with

the despocarance of the residual urine The conclusions drawn by the author are as

follows: I. The catheter should be used when necessary to relieve distention both because of the pain and because if the distention is not reheved there is danger of the destruction of kidney trasse by back DITTENTE

2. Postoperative patients not requiring catheten astron quickly return to normal without emeary tract infection even though some readeal arms may

be bruscut

Patients who require epeated catheterustions will have no infection provided they have duly test for rendeal more until this is no longer present 4. It is dangerous to stop the use of the catheter suddenly with the advent of spontaneous michin-

tion because this is usually followed by period of several days of randual urms which, if contaminated, is the chief cause of postoperative cystitis s All pregnant omes who show undue fre

sency of unnation or whose urine contains per should be watched for rendral crime as precisation against the pychia of pregnancy

Roscox Jarson M D

McGlien, J. A. The Treatment of Gonorbers in Namen. Three Ger toss 12 mm im

Acute cases of gonorrhora are seen by the play cian relatively acidom. The author my only onsuch case duting the last year at the veneral clone of the Philadelphia General Hospital In the acute stage the diagnoses is cary and treatment should be begun immediately. The primary source of false tion is all ay in the terrir and for this resecu douches which may reless congestion will not de stroy the organisms. Since all germondes all do more harm than good, he advage arrests when solution for the various. Of chief importance in the treatment is the cervis. This should be first cleaned with sodium bicarbonat or hynochlorida solution and then dued with hot air (dental cavity drier) or cotton as be, with care not to treametas the canal The a thor then apolies a 1 200 warm ambne gentlan-violet solution which penetrates deeply and kills or prevents the growth of the goocorres. He considers the use of hechloude of nor cury and lysol persistons

In order to change the conditions favoring the growth of the gonococcus, suppository formed from half cake of yearst is inserted into the vagina each mucht. After the cervix and vagina are free from gonococci the persisting discharge, hich McGhan considers due to change in the varieti flore, is stopped by keeping the vaging dry. This he accomplanes by filling the vagnet at night with Fuller's earth and washing t out again in the

morning

McGhan does not find that the urethra and glandof Barthokn become infected as frequently as a to be assumed from most textbooks. For infection of the urethra and Skens' glands be advocates argyrol or protargol. When Barthohn's giants are mireted at will be necessary to open the canal and treat the tract directly

The difficulties in treating chrosse cases are est Repeated examinations after several meastructuous must be made. For chrome mist tion of the cervix McGlinn favors the actual centery ith the temperature high enough t produce a slough but not a char Postoperative care must be given to prevent stenoma. Skene glands may be laid open and cauteneed with wire or dissected not If radium is used for chrome infection of the corvix it should be employed in small repeated does

Sturmdorff's tracheloplasty may also be done In concinton the author emphasizes the respor tance of not overtreating acute cases and the futility

of local treatment in chronic cases ROSCOR JESTON, M D

Maxwell, A. F The Results of Radium in Gravcology California Sime J M 913, xx1, 55

In the beginning, radio activity was accepted by the medical profession almost universally as panaces for all peoplestic diseases. Today the tendency is toward same evaluation, the application of radio-

activity being clearly defined

The m terral in this study was obtained from the Nomen's Clinic exclusively and covered the years 1016 t 10 1 inchrave

There ere of cases of carcinoma of the cervix t ten of carcinoma of the body. Briefly the tech morse concerted in the use of the bare t be containing either the salt or the emanatso acreened by 1 mm of silver and 1 mm of brass and encased in sterile rabber Crossfire as obtained by placing capsules in the loser uterine cs ty and aging directly in contact th the cerv and parametrum Bare tubes ere tried with but very little success except in cases of agrinal metastams. Gause strips and rubber dam ere packed firmly into the vagun t protect the bladder and rectum and the latter were lept empty by cathetermatic and enemias. The

erage dosage was from 3,0001 3,000 mgm or mc hrs given in single dove or more ften, ,000 mc hrs and repeated in forty-eight to seventy to

hours, so to so me being used

For emtable working basis the cases ere classi fied as early and operable and borderline and inoperable Of all cases of certical carcinoma twenty three ere recurrences and eighty five were primary Of the latter englity t were erven radium treat ment oul and three ere operated upon later Of the forty tw men th moperable carcinoma, thirty one (66 per cent) succembed w thin a year and four ha e h ed t o to three years and ha shown marked improvement. In one of the latter the condition was so altered by the radiation that an operation as performed subsequently and the patient is free from ages of malignancy four years later. Intense postoperative is ing. as done also Ten per cent of the patients in the terminal tages has survi ed over three years and these years ore made bearable Of those a the borderline condition to per cent are also some of them as long as t after the treatment. Three er so benefited that operation is rendered possible. I this type of case in the is more situal ctors than surgery

Bumm reports a fi e year cure following radium treatment si per cent of a series of twenty two cases. Two of the very early cases presented definite contra-indications to operation one patient died a year after raying without signs of carcinoma the other shows no evidence of malignancy after three) CELTS

The great majority of recurrences are not recur rences but a problemation of traine not removed t the time of operation. Fifteen of twenty three somen with such a condition are dead and one of the five who are living a clinically well after three and one-half years. To of five women radiated prophylactically after by sterectomy are well after five and air years respectively

Carrinoma of the body of the uterus is treated as a surpeal condition 1 e a omen a th this condition died of recurrence and five are hving three as long as four veurs after treatment. Si cases f carcinoma of the overy two of carcanoma of the chiteria. and one of carcinoma of the urethra have been

treated without apparent result

The hamotrhages associated with adolescence and fibrous of the uterus are effectively controlled by radium. In cases of my omata and fibroad polype the treatment is now restricted to growths confined to the pelves in somen near the menopause and in

bom submucous polypoid tumors, mahemancy and inflammatory private reaction can be excluded Endocervicitis was alleviated in all four cases One case of chorsoneputhelsoms received 3,470 mc -hrs f treatment authout any apparent effect on the eros th

I summarrang, the author states that radium has a definite place in gynecological therapy. Death is postponed. Operable cases should be operated upon after radiation. Cancer of the uterane body is surgical The bleeding myomata (selected cases) the my opathues, and som of the leucorrhoral discharges can be astudectoraly controlled with radium A JAMES LARRIN M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Speidel E. A Reutine Treatment for Hyper emesis Gravidarum Am J Obit & Grace 9 5. Y 48

It is of great importance in instit ting the routine treatment that the patient's hisband and family be impressed with the fact that the condition is very serious and that a favorable outcome, even the patient's life, depends most their co-operation.

The patient room abould be flooded with senstance and fresh air. I die finmly and histand should be excluded, especially the histand whose presence it once arouses the set instinct in the patient and reflexity causes emess. The diminitration of food, and even of where the mouth should

be stopped at once

In the author's cases the daily routine is begun

ty as by irrigating the large bowel with gallon
of warm solution containing to rounded tablespoosins of sodium becarbonat. The solution is
introduced slowly through N no eathert and

ben the patiest strains she is allowed to expet in storaged the other. How solution is then run in and when the final part has been introduced the catheter as wholwas. It is shoped that the patient will retain and shooth a considerable part of the solution as in this wy find will be supplied to the body and the accious will be sowers but cost hated by the solution bear thought the cost hated by the solution bear thought.

too of the fluid. The freeding sol tion, which is armed to body temperature before such introduction, is couplead of 50 pm of glucose, too cm of trophine or prinception, so pm of sodium bearboaste, and enough water it make now our This amount is sufficient for one day 1 Surty grams of sodium bear before the introduction, and if the patient is reclaim, any off of the first are discovered in the first patient improves, the amount of sodium bounds in graturily reduced.

From the beginning an ampoule of corpus lateum extract is administered once or t ice duly naira missicalisty or intra enously until erythensa is dicates that sufficient has been given

After three days of this regime the treatment is supplemented by the intra enous disunstration of goo cm of sterile per cent glucose solution. The glucose relieves the carbohydrat deficiescy.

caused by the demands of the fetus upon the mother and the lack of it in the det that she has been able to take. It will be absorbed directly by the fiver and will aid as regenerating the dimaged liver cells if the destruction has not gone too far

The rectal treatments are confined for its succeeding days and on the seth day second I travenous injection of glacose is given The rectal treatments being continued, neather large practiced on the eighth day with 5 gal of sidules locationate solution containing rounded tallespoonful of the note, and at the red of the large 2 pt of the solution is porced into the large 2 pt of the solution is porced into the rounds through the tube. The is groundly re-

The administration of food is begun tentatively on the minth day the patient being given. Holland rusk or shredded—best bescuit twice a day

The cereals are slowly added in the succeeding days, the rectal feedings being gradually reduced in number as the patient is able to retain the food taken by roomth

This rotation includes well recognised nestings in the treatment of hypermens and forms the wait besis for the treatment of every case. Additional measures are used in compaction as thirt, if seems sary. Advantage and the compaction of the compac

L CONVELLED

Straggmod! My Improved Method for the Prophy Incide Treatment of Echampela. J. Ohn & Gyart Bril Emp. 923, 227.

Stroranoff has had sie experience with eclamp ent and described method of treating t about t entw fi years ago. At first his method had mortal ty of to per cent, but in the last twelv years he has so improved it that he is nearly also y able to m the mother and has greatly reduced the infant mortality. He tates that in this condition terms formed in the mother's blood irritat the central nervous system, and particularly the vaso motor center. This irritation causes spasm of the blood vessels and an acresse in the blood pressure accompanied by herdache changes in the evenight and hearing and epigratric pain which terminat in convulsions ath loss of commoustness. The spasm of the blood vessels of the kidney causes sharp change from obguna to anuma and Ibunun and casta appear in the urine. The toxic elements causing the unitation is the syncytual masses which enter the mother's ema. The fact that eclamous appears more often during delivery seems t indicate that

the to neytual cells enter the blood during labor and that their tenenty is increased by the labor pains Immediate delivery appears t be of little aid in counteractuag this condition and may often be harmful.

In the treatment efforts must be made first to prevent convulsants as these increase the amount of tornes in the blood Elimination of the toxins through the skin and kidneys must then be stimu isted

Next in importance to the arrest of the convul more is the combined administration of morphine, chloral hydrate, and chloroform These drugs calm the patient cause sleep and prevent spasm of the blood vessels. To reduce the concentration of the toxins in the blood, venesection and the introduction of third are beneficial

In the other care of the patient all causes of irritation must be removed. Light, noise, and manup ulations must be avoided Examinations should be done under chloroform

The narcotics Stroganoff administers in the followner ander

At the beamming of the treatment hypoderinx injection of 14 gr of morphine hydrochloride is given under chloroform and repeated after three hours. At the end of one hour to gr. f chloral h) drate in 200 to 90 cm of saline solution are given by rectum or if the patient is conscious, by mouth ith oo c cm of milk. This is repeated in seven hours, thurteen hours and twenty-one hours It may be administered a thout chloroform if there ha been no convolucion or prodromata for twelve bours. Thus the patient receives from 75 to 35 gr of chloral by drat and from 1/4 t 3/4 gr of morphine in one day, together with 500 c cm. I milk and 500

ten of salune solution. Il forerunners of a convulyon, such as increased headsche increased blood pressure to tehings, and restlessors are evident chloroform a minimum dose is s c cm

If the patient has been free from convulsions for t enty four hours and has not yet been debyered. she streen chloral hydrat every ight hours. The prognosa n i orable il convalvione do act appear for twelve bours, and much more I vorable if they remark absent for twenty four bours

Stroganodi reports so cases of echampus th four deaths of moribund patients a mortality () per cent. There er no desthe in cases hich had not been perfected H & FDR MD

Brindens Fibratusts Complicated by Prespance (Les Shromes compliqués de grossere) Presse mét Par 14 3 xxvi 385

The utbor limits has study to abromata com plicated by pregnancy and does not take up their relation to parturition of the poerpersum. Cases of fibroms complicated by pregnancy are relatively rare in 1,000 of the uthor's cases of fibrorea larger that an egg this complication occurred in only eight

The most common ate of fibromata present during presuancy is the body of the uterns. Usually they are subscrous, occanonally interstitial, and very rarely submucous. As a rule they contain some fibrous tissue but are made up for the most part of nterme muscle. The interstitud and submucous filmmata have the most marked growth because of the hypertrophy of the muscle containing them

The fibromata soften a th the softening of the uterus and the pedunculated fibromata sinch fall into the peoch of Douglas frequently ha e the con antency of crass. When a fibroma is intracted in the fundos it rises with the uterms, but when I is ninated at one of the horns, the oterus usually follows the tumor Retroflerson of the uterus may he caused by a fibroma on its anterior surface or by traction or under development when the fibroms is on the posterior sall

Degeneration of fibromata a much more common danna pregnancy than at other times, the most common tha so being what the English call red degeneration. When this has occurred the timeor es noft and temally vellowesh red. Macroscooks exammation of the muscle fibers sho somes of necro-

boom and marked fatty degeneration

The difficulties in the diagnosis are numerous In certain cases a tumor on the anterior wall of the uterus may seem to disappear during the course of pregnancy. Torsion of a pedicle or necrobions of a fibroms may cause such symptoms as pain, vomit mg or fever suggesting appendicutes pyckonephratis, or ectopic pregnancy. Other complications may be cansed by compression of the bladder rectum or urelens

If complications arise, no ttempt at an embora tors laparotoms should be made In to per cent of the cases a single abroma can be excised sthout interrupting the pregnancy. In cases f multiple submirged fibromata auhtotal bysterec tom) should be performed. If the patient was term nothing need be done unless labor a obstructed or

there is elevation of the temperature. If the tem perature rues, hysterectomy is indicated to prevent infection of the fibroms and the peritoneum If the fibroma fills the pouch of Douglas a cre surem section should be performed just before the beginning of labor. After delivery a myomectorar

should be done if possible otherwise a hysterectomy In twenty seven cases operated upon by the author there was only ose death and this was due to pneumonis. Of seven cases operated upon before term the pregnancy was interrupted in only one ROBOR JERRON, M.D.

Brady L A Clinical Study (Ect pic Pressancy Bull John II phras Hory Balt 9 3 xxtt

The verage go of fifty a omen operated upon for ectopic programcy at the Johns Hopkins Hospital, during the years from 1917 to 1922 was 5 years. The two oldest were 39 and 38 years I ago and th two youngest 7 and 9 years There were thirts three white and seventee colored somen As only

one colored patient is admitted to the hospital to three hits patients it is evident that ectopic restation occurs somewhat more frequently among the

negrocs.

The ectopic pregnancy was the first pregnancy m only six cases. A previous pel ic infection was ruled out poutively in only seven cases (4 per cent) In twenty lour f the fifty cases there a sa history of missed menstrual periods, minally one or two the largest number mused was three Irregular atterine bleeding had been present in thirty-seven cases and absent in thirteen. The duration of the metror rhagia varied from a few days to five months the

a crage was one mouth There was a history of pain in every case except two In thirty eight, the pain was severe, in ten slight. Fainting occurred in only three cases t cases fubal rupture and one case of tubal bortion

om ting occurred in mine (15 per cent) The a crago temperature was 99.4 degrees F

unetern patients had a temperature abox on degrees and an a temperature of 1 degrees or higher. In some of the cases was the temperature lelow 98 degrees

The a rage poleo rat was 104 butty-us per cent I the patients had a pulse rat abov on On admbears, the pube rate of one somin sas 50 that of two others 140, and that of six others 120

A striking change in the respiratory rate occurred in o ly one case, that of woman in preferand shock who on admission was breathing only are times to

the minut The leucocyte count a cruged ,000 In serteen maiances the cou t as above 10,000 The highest counts recorded ere \$5,000, \$4 000, and \$0,000 The average ky mogloban content was 61 per cont In fourteen cases it was below 50 per cent in seven, below 40 per cent and in three, below 30 per cent (8, 17 and 24 per cent) The bleed pressure was below ro in sine cases. The low readings were \$5 stolic with to disstolic and 75 systolic with 55

diastebo The general condition was recorded as good in fiftren carea, as fair in thirteen, as poor in a e and as critical in three I the other instones there was no record on this pos t presumably the women

were in good or at least fair condition In nane cases the abdomen was distended T ader ness was present in forty-t cases, but muscle spann in only mire Percussion revealed shifting

dulises in the finks in four cases. In no inclunce was there blund discoloration of the umbilions Vaginal bleeding was present at the time of examination in twenty-seven cases Pelyic tender ness was present in all except seven. Is thirty it

was moderate and in thirteen satemer In thirty dx cases (7 per cent) the correct diag-

noses was made before operation The tube and overy were removed in thirty cases and the tube alone in nineteen cases. Is the case of pical pregnancy only a exploratory laparotomy was done

The convalencence was uneventful in forty cases and stormy in ten Abdominal distention octuned in sex cases and prolonged comiting in fi e

T else infrasons ad seven transferson were go en As a rule the infrasons were not begun before the operation because it was thought that raway the blood pressure would cause further bleechag into the abdominal cavity

Only when blood crepitus was felt was the pelvic examination of much aid in determining whether the presmancy had reptured or not. The abdomisal examination and the patient's general condition ad

hutory were of greater importance

All of the patients made a complete recovers On reviewing earlier records of the hospital it was found that an oper tion for ruptured extrauterine pregnancy was performed in February 10 3 The sac contained badly macerated letus and too com of ery loul pus Although abdominal nd pelvic drainage ere both used, the patient died of general pentonitis. Bet een February 0 3, od September 1922 there were seventy-one consert CHD WAD tive successful operations

Farsyth, J. A. C. A Case of Eronion of the Rectum hr an Ectopic Placente. Least, 923 cov 795

ther reports case of tubal bertoes att erosion through the rectal all Corridorable rectal bleeding occurred. At operation the reptured tabe with the mole was found in the pouch of Dougles The mole contained fotus le millameters long The pouch ! Douglas was closed and temporary colostomy was made. The patient recovered colostomy was closed on the fifty muth day

ROSCOR JESSON VI D

LABOR AND ITS COMPLICATIONS

Poullot, L. and Truchard, J. A Critical Review of Fifty-Three Cases of R pture of the Uteres Following the Use of Hypophystal Preparations (Exem critique de circular rois observisents de repture utérior après emplos de préjacte tions hypophysicas) Res treng de grace el abel 923 25 11 45

review of lifty three cases of rupture of the oterus following the use of hypophyseal prepa rations, which ere collected from the literature by Recker ad Haskell the uthors come t the con chance that pituitra should be used on ben the pelvis is normal, the longitudinally presented I tus is completely engaged, the cervix is soit the lower segment is effected, the uterine musculature is un estence by frequent promunces or constrain section, ad cardia and renal complications re absent

Polak, J.O. Dry Labor. Am. J. Obs. or Grace

The author drysdes cases of day labor mto three classes. The first class are those in which rupture of the mambranes occurs before labor beguns

When the soft parts are prepared, the bend is in the bram, do the head and periva are presumably now the mother about 10 to and the couler soften any upony from ruptured membranes so long as the mother is not inactive and the crevit is not infected by repeated vaginal examinations or manpulation. The operat of the find is more or less effectively blocked by the ball all extens of the bend. Spontaneous I bow will intelly occur in the time and should be ill established before any adjunct to for dishbours is considered. Surgreal interference in published the in the cases of add principates on the late of the lat

The second class of cases of dry libor are those in both the membranes require the beginning of labor the cervia's undistied, the head or berech in engaged or engageable and the pelva is presumbly sormal. The labo aboud the allowed it progress for several horse or mutt the pains are strong and regular before resort is had it measures to do in the did taxon of the cervia. A careful constitution about the about the progress of the cervia is the constitution of the cervia of the progress of the cervial of the

s cm. On the other hand if the cervical rim is thank nd unveiding the patient should be placed the Sums position after proper surrical preparation of the vulver unface the penneum retracted th Sims speculum and the ging packed th healed otton batting moust ned and rung out in volution of borogi rends, one part to eight of sterale ter The tempo should be closely pointed t the formers and over the stretched cervix, and the upp pack d firmly Thus ill excit tenne contractions kep the rervix in close promition to the prese ting part soften the cere a and smooth out the canal \ hypodermic of morphine, gr 1 nd scoroling as at on given take completion of the pirk ag. ill give the patient rest between name and relatible cervical spriam. In few bours dil tion ill be completed the plug ill be expelled and the presenting part. Il be period down to the pel a floor Long experience has convinced the whor that all the other methods of artificially dilating the circix in inferior and fraught a th gre ter danger I the method described, dilation is obtained thout training and secretions to not dummed p behind the plug as is the case hen the be usused

1 the third class of cases of der labor in line there is relatar deproportion bet can the braid and the plant too much time mu t not be waited on the management of the soft part distincts. Because of the interference in the feto-placental circular control of the interference in the feto-placental critical control of the interference in the feto-placental critical control of the control of t

time longer than twel e hours as the dangers of sepals are constantly increasing and late operations are attended by a high mostulity. It is in these cases that section is t be considered. As all dry labors are potentially infected, the classical operation is not the procedure of choice.

I AND L COR ELL, MIL

PRESPECTIVE AND ITS COMPLICATIONS

Moeiler W Mechanical Heus During the Puer perium (Mechanicher Heus im Wochenbett) Monatricke f Geberisk Gynachel 9 in 73

It sould spect that prepanery children and the perpensan are cool tools of ourge mechanical ideas, but this is not the case. The at tissue collected be Enert Moeller incides only, boot or cases, and it these only ten more can be added from the I terature. It is probable that no some cases the growing terms may stretch or even tear dressons with the represent before the prepara ey began. This assumption is supported by Viocities' new case in which hand respect from the triple again terpons.

Bet een the ges [sand so years, the somans proof of child bearing them is considerably more common in man especially the type doe i bind and adhesions. This is the more rem table for the reson that this period in later ben the condition occurs is about equal frequency in both series, the morbidity of thesesses [the gall blind or and dients in greatest and gall is near consider bly more common in the finals then the male. The ct that of i | females in the less how we be tem the ages [sand so surs, see on had not present through childburth again indicates that pregnancy and childburth present the designment of the condition of

W tson, B P The Treatment of Poerperal Infection with Discussion Bra H J 0 5, 1, pp. 5

Although in recent years our enception if properly infection has undergoon marked change old methods of treatment still persua. The author state that it is no time it realize that the parties of the properly in the properl

Moch his been kerined dumig revent year reparding the mose of in asson of indeet it or gamma and their spread from local focus such as the infected portperal stress. The organisms con certical principally in persperal infections from reading the field of the perspective of infections of the perspective of the perspe

tension occurs by continuity with a spreading inflammation of the riu osa. In himsolves the tibes of their thout put form to if the limph

stream to invaded a general penticellist may develop, but as a rule an inflammation y restrict on the relibiar issue of the broad ligaments and tobes, a pelvic cellular, results. This may or may not go on to abscess formation, but hearily always remains locathed as the pelvis in some cases, lowever, thrombus formation and invession of the general blood stream follows:

After extrapelyse causes of fever in the puer persum ha e been excluded it is permisable t make a gentle himannal examination. In an early case little will be found and further exploration may cause great injury. Curettage will disturb the raw surface and open pers maces for infection. As portions of placents do httle harm m such uteros. the zeal th which efforts re sometimes made to reach them is fren ery largnous. Even the latra nterine douche is contra indicated. Recent expersence in the treatment of injected wounds has shown that the most imports it factor is free drain age and the fewer antiseptics and the less the inter ference the better I the infected uterus the cervical canal is al aya patulous and dramage is as sured It may be helped by placing the patient in Fowler' position and administering such drugs as erent patuiting, and number. An ace her may be applied to the bdomen. A liquid that should be given, the bowels kept open and blood cultures made at intervals

The great mijority of poerperal infections if respond t this form of treatment if celluluis develops, it ill be evident in three or four day. A pus tube will be noted. It the later 11 a pus see localizes in the petrus t can be drained through the wagna. A pus t be should be removed only feet the termorature has been normal for zon; tone

In case of tree bactersmus the results of mire venous therapy with magnesium subplate eusel, salvarsan, and sera have been found indifferent H II Fra. M.D.

Wagner, A. The Use of Continuous Drip Irrigation in Postperal Fover (Zar Americans) der perna netten Trofesserigsbon ban Postperalisher) Destelle med B. desche 9 strue 127

Continuous arriction; poerperal (ever should be more widel; used by the general practioner: I very severe cases with septic thrombophichests; etc. a market effect cannot be expected but in this many cases of portperal wound intonciston and local afection of the permeum varian, portio, or endometrism this treatment is of great benefit. It is not intended, however to take the place of

operative procedure.

Continuous impation is best carried out as drip impation by means of a Martin gian globe. For the distinctions, the other prefers bridgein processed but state that themission exercises the processed but state that themission exercises all solutions, and other as the state of the processed of the contract of the processed of the processed of the contract of the processed of the information are also decreased because of their training select. As the result of the tringation advecated, the disagreeable odor ceases, the wound becomes clean, the temperature falls, the chifs cease the pain decreases, and the general condition in proves

Nyolasy A, J. Pourperal Infaction: Lie ture or Excision of Volna. Vol. J. Australia, 923, 5, 400

The author reports a remarkable recovery fellowing ligations of the overant was close to the relevies and the control of the prophetics of (j) the control of the Bert Control of the cont

In three other cases ligation was probably done

For all cases of presperal infection is, hick there are no definite for of infection and the uterus in clean, the uthor dysas laparationy ith highton of the ovarian visins, excision of thrombosed vessels, or hysterectomy

Two cases of streams of the ovation were arreported. In one, which was disposed as appendictle, the ovation were as found to be thromboard ten days after delivery. The other as a case of rank purportal septicensis with streptococ in the blood, operation revealed a right salpsinguis in thromboas of the right ovation were also such as the other products of the right ovation were such as the other products of the right ovation were such as the other products of the right ovation were such as the other products of the right ovation were such as the other products of the right ovation were such as the other products of the right ovation were such as the other products of the right ovation was the other products of the right ovation was the such as the other products of the right ovation was the such as t

THILIAM B CAMPBILL M D

Buidwin, J.F. The Surgical Treatment of Carrien Functions Am. J. Obs. & Cyar. 9.3, 409

The class of cases considered in this decision modales the allectrons of the prior venus. Through the infection may enter at any point, pikelised of the venus of the broad lugaciants may class and in the prior venus but a most serious. But the control of the prior venus but a most serious but on the prior both directly unto the venu care, and on the left side into the case care and on the left side into the case care, and on the left side into the case care, through the treal venu. If the is adversard does not result

purulent breaking down of the blood clot, reachs too takes place with prompt amehorshood of graptons and recovery as is seen so generally in that form of philabits so, cell known number the old same milk, leg or philegrams altar dolons. If as fection takes place, the disease progresses and unless there is interventions, death is normital?

In the type of infection the initial symptoms are identical with those of the less across types but do not exheste As rule there ill be repeated chills, side externsions of temperature, much a reating, great proteinsion, rapidly developing assemis and if the clot breaks loose and goes to the heart, the weak graphisms of unletted embolum.

Vagnal examination reveals failure of normal savolution of the sterm and marked teadersess on one or both adds or behind the crysts. Someor later mass can be fold at one of these por is This may be ell marked, or may werest med passing cros. The thor has as er felt the norm her mass mentioned by Wallame. While in almost all cases a careful examination will at en dence of infected sel s. It is no suble that in some cases such one may be out of reach and the diagnosis can be made onl from the history and symptoms.
The programs is practically hopeless unless the

infection is of very limited extent. These cases are usually chronic but occasionally fulming t ever apprecia in buth death is nemiable. As in the remous menuments of the national does not due it is much more reasonable t assume that mintal he been made i the disenses than that recovers

has occurred

Bald in tathatics show forty seven recoveries i early seven cases. There can be no question a t the propriety of operati intervention or the errat benefits t be expected from it. His death rat could easily ha been made better by refusal t operation seneral of the orse cases, and et in one of the ery out prount recovers resulted in u protoble that several of the patients he died would he recovered if they had been contrated upon earlier of tibrected t more radical operation

The technique used 1 all such cases consists in performing punhs terectors in the method de scribed by him 1 raper read before the American Augration of Obstetricians and C perologists at India poles in September old The operation should not consume more than thirt minutes The piles comes to the following conclusions.

W then contain intercention death occurs 1 those rather rare cases in burb the disease is hmited practically to the events of the heart of the cars but the thrombus is feasible but the death rat as bown by Miller is not less than 60 our cent According t the outcome in sixt seven cases the mortility of radical operation, 1th free drainage of all the infected cans and usually with by terertoons is little less th a so per cent or hout ore half that of ligation

Poemeral infection is sample. ound infection and should be treated general surrocal renormies hat specialists long go learned the vital importance of cleaning out ith highlion if percenary the thromboard internal jugula em in cases of lateral st us infection due t disease of the mastord there is enough striking imilarati bet een fected thrombus in the rugular can and a in

fected thrombu in the vers of the pelvis I L Convent VID

NEWBORK

Salley II and Bugg II J The Effects of Irradia tion on letal Development im J Cha & Grave 0 1

Experiments upon the lower mals tave shown th t on the sex gland are Leventh irradiated be ore ferrilization if typ al letal reaction are follows.

a de turbed honormal arrested les lootrent resulting in the formation f monster conforms e seneral type and pronounced d more or less ! turbance in the dev. knoment of the central nervous as etem (Boh Perthes, O and G Hert ur Sch nur Int Roeder and Raid in)

A marked 1 dency t a loss of f rtility a perific medification of the hered t ru methanism (Ma or) d the nitoduction of in bented defects in the oung especially in the ever

(Little ad Bace)

Irradiation during over new causes the following errecal desturbances fetal des elonment denending mon the developmental period it which the irrid tion was instituted

Disturbed prested becomes development th death of the embry absorption or bortion tunting of growth cutaract territy lesions the central pervous y tem and blood y scular disenthances in the embers. (Himnel and Programmether Regard Nomer Languagese and Cout rd)

I mileton cluncal report the a thore conclude that when comparatively ereat dat lances resulted the child the resolution as go on early in Irradiation during early pregnance way cause the death and permature delivery of the

Irradiation during lat pregnancy is not so not t produce eroes deselopmental boormal tres to the hild a burth but in some cases hildren urradiat d sters t this period or prematurals deli ered

showed nost natal growth dry thances or died thin the first car Werner reported three cases as back retard toon f growth resulted, and four in buch the child died thin the first v a

The severity of the treatment well the penul t which the irradiation ri en po doubt deter

mapes the reaction of the feral timbes The experimental evidence in the lower animals

hous ith great probability the turnduction i furethe follocular elements if the on to The first patient whose case is reported by the authors are suffering from Hodglin' disease and ten months before conception was her ily radiated with the 1-72) 1 male rolant a th an extensive develop mental arrest in the formation of the bead as born and died few bours fter birth. The serrond patient he as tre ted for fibroad the garnens ra) radiation became pregnant eighteen months later In this instance la ge till been inf nt deh erred at term in the list c se gamm ra radiation was p en from plaintum t be placed in the uterus Conception occurred seven month late and the child was progrently normal burth. The a thors tate that their evidence is not sufficient t warra t tenbuting the des lopmental defect in the first case or the stillberth in the second to the irradiation 1 the treatment of merorrhagia in the child

he are penal complete sten t is preferable t the possibility of a damaged germ plain

I L CARRE MD

Sherman, D. H., and Lohnes, H. R.: Bleeding and Consulation in the First Week of Life. N York State J 21 923, XXIII, 46

The authors emphasize the fact that too intle consideration has been given in hemorrhane buth accidents to possible blood abnormalities in the child The immediate danger of both hemorrhage each with the first day but its results may not appear until much later in hie. At the Hooper Foundation, Lucas and his amounted learned that the clotting and bleeding times even in normal infants, are apt to vary considerably dames the first ten days Rhodda's test shows that the verses congulation time of the newborn is from five to ten minutes According to Duke's test, it is from t

to five minutes At the Buffalo General Hospital, under the direction of Roman, the authors are beginning the study of the blood of infants by Rhodda's method The second drop from puncture of the heel is caught in clean watch glass containing No 6 shot and this watch glass is covered with another. The glames are then tilted every thirty seconds notil the shot is fixed in the clot. The bleeding time is show by the puncture. Observations are made daily for five day in 100 cases. In twelve cases the clotting was prolonged beyond nine minutes and in t enty eight cases the bleeding time was more than five minutes. A large number of these showed slight prolongation on the second third, ad fourth days In two cases the bleeding continued for hours. I the only case of cerebral harmorrhage the bleeding time was ten minutes and the clotting time fifteen min utes on the second day. The miant recovered com pletely after the subcutaneous aspection of 10 cm of hole blood

The athors conclude from their ork that the newborn there is a definit blood dyscrasia which is characterized by interference with the normal blood lotting on the second or third d ; This is no more frequent in premature than in muture niants. It is a temporary condition of hemophilia which subsides before the teath day. It is present in a8 per cent of all infa to it varies in degree and a characterized by prolonged bleeding time rather than a prolonged clotting time. The suggestion is made that the cause of hemorrhage dueste in the peahorn is change in lever function due t the charges in the circulation from the fetal t the

In conclusion the authors state that urgeons should must upon determination of the eletting and bleeding times before operating upon infant during the first ten day of blo

Rescue Jarron, M D

Blood Transfusion by the Citrat Talle. F II Method | Harmorrhades of the Newborn / A W A . 0 3, tre, 618

This article reports the successful results following blood transfesson in fourteen cases of harmorrhage of the newborn, one of them complicated by scienus

The uther states that grouping of the blood before transferion is unnecessary as hemagylotinms and precipitite are not developed in the child to any great extent before the second year of age. He suggests that, if the mother blood is used shrikt excess of chirate solution be employed because of the greater tendency to congulation in puerperal w omen

Striking improveme t is show after the trans fusion of from 70 to 100 c cm of blood. This amount of blood is greater than that suggested by the majority of writers in discussing translation for very young miants

The thor desects out the jugular cas in the neck and ligates the vein after the transferson SURVER I Know M D

McDowell, H. C. Postmortem Findings in the Newborn Y | at State / H 0 J XIIIL 141

From the practice of Potter and himself the other reports the findings in thirty stillhorn is feats or those dying within ten days of delt en-All of these ratants ere delivered by erston

U Dowell remarks on our lack of knowledge concerning the cause of stillburths and emphasizes the importance of in estigating at every opport atty. After an excellent resume, I the reports from several recognized maternity centers be mentione the amous factors maternal fetal cord and placental, which contributed to stillburths in his own series of cases. The automat findings are then taken up. The following pathologic conditions were found gentarenal hemorthers, ten cases polmonary hymorrhages seven cases (t o associated ith preumo 1) kidnes infarction, t subdural harmorrhages t cases cerebral hemor rhage three cases meninged mjection two cases cerchral embolism (air) one case personnul and subpentonesi hemorrhages, i cases congenital definency of the left draparagm, the langs, stomack spicen ind how I being in the chest one case intra tenne asphysia, five cases both injury (fractured skull) t craces fracture of ertebra, one case perfor tion of the skull its cares spins behilds its cases meaning-corde one case tearing of the tentorium cerebelli four cases hydronephrom, one case enlarged suprarenals, one case hydrocephalus, two cases and hemorrhape duthesus, the cases

A further grouping of these cases reveals that per cent sho ed pulmonary becoverbages These humorrhages ere not in themselves the cause of duith. Imong the direct causes ere prolapse of the cord premature experation of the piecenta, ad int utermo asphyxia due to pressure on the cord In the athor' opinion these homor thegat conditions are due to increase in the clot true time of the blood caused by external pressure policd upon the fetus either through the cord or directly Prolonged labor by lowering the vitality of the fetus and caming coatmined pressure upon t body undoubtedly is an immorrange

In the cases of spins blifes, hydrocephalin and other cranial shoromishies the author found changes in the glands of internal secretion. He believes there is a definite relationship between the development of the fit us and these glands. Treasure upon the body of the fetus may be as great as that upon the hot produces the secretic design of the product of the secretic of case revice et, a poluin was found in only one although three of the fetuses ere materiated.

In concl tion the author states that the chief causes of death re-prolapse of the cord and placental complexitons hemorrhane conditions in the fetus (the result of cord complications companied by authyria peopatorium and placental complications) and abnormalities and infections of the fetos Syphilis rarely causes fetal death. By decreasure the time required for the fetal head to pass through the pelvis, the author has reduced the cases of cerebral bemorrages and eliminated mutilating operations upon the child. The number of burth invines has been reduced by eliminating the use ! forcers. The remaining problem is t find method of decreasing the clotting time of the blood I the fetra ROSCOR JENSO M D

MISCILLANEOUS

Dale, H. H. The V los of Ergot in Obstetrical and Gynecological Practice. With Special Reference t its Present Fostion in the British Finarmacoposis. Proc. Rep. Soc. Hed. Load. 0.1 Nr. Sect. Old. & Gynac.

The difference in the t o commonly used preparations of ergot in the British pharmacopera, extract our ergote liquidum od extraction ergote (or ergotine) depends on their preparation. The former is

watery extract made in the addition of alcohol which carries down the materials regarded as in perities. The latter is an alcoholic extract from hich a insoluble residue has been precapitated by the didtion of a ter and removed. Tearet first isolated from ergot a pharmacolog gally and therapeutically cities substance named ergotinne. This included a pure crystaline and an amorphous alkalold, which be considered identical their essential properties.

Later survival generalization of that the crystalline form is practically mert. Still later crystalline affixer obtained from the substance formerly considered amorphous. The latter substance renamed ergotomic, * sax considered the principle responses.

sable for the specific therapeatic action of ergot.
At that time, to ever practitioners were sking
the preparations of the British pharmacopens a both
had been freed of the ergotomic. There as con
fusion as to the value of measuring the therapeatic
strength of a liquid extract of ergot be as effect on
the blood pressure of the cut or its action of isolate
other measured were demonstrated to be the
basic transfer and Shanmer.

A ex alkaled—erotamine—eras isolated from ergot by Stoll, a Swiss chemist. Laborator, tests ha ledt the leafer that the isolated quantitatively and quantitatively and quantitatively and continual estimats be no revised that official estimats be no revised that they ill retain these two alkalook.

Exposumes entrate, governer, and femorphs on their activity to the specific alliabeds. A preparation called errorin contains the specific alliabeds and the potentiactive bases as well.

Since the war the difficulty of obtaining ergot from Russia has resulted in the perparation of product containing the non-specific bases but facking the emotoring.

The number suggests that the type of ergot action, said consequently the type of ergot preparation and consequently produced in distriction of the type of ergot and in distriction of ergot and its official extracts of ergot and its official extracts relating to the species value and the report and the second to the produce action.

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND DRETER

Scient, A. G. M. A Cuse of Acut. Bilateral Supra renal limmorrhede, Leacet 9 3, cci 646

The case reported was that of 50-year old unmarried woman with thronic melanchobs ho was a patient in the Devon Mental Hounital Durine her three years rendence in the hospital her general condition had been poor but she had never shows symptoms of definite illness. Routine medical exammations had indicated slight artemosclerous and shight albumnauria. There were no signs of Addison a disease or other tuberculous foci and none of the external sexual abnormalities associated by some observers a thedresse of the suprarenal glands

During the early part of the day of the ttack reported the patient appeared well but late in the afternoon collapsed rather suddenly and became profoundly authoric. Her condition then became worse and death occurred within three hours

At autorey the body showed no cutaneous rush. bronguag, or plannents turn of the mucous membranes. and no macroscopic leasons were found in the abdominal or ity As far as was ascertained, the sympathetic ganglia and the other endocrine organi were normal, with the exception of the spiten, which was pultaceous and pale. The Lidneys showed slight interstitual changes. In the region of the pancress there was hemorrhagic staining of the retroperatorest trawe, but on section the pancreas was found normal

The suprarenal bodies ere both distanded to the size of a hen's egg, oval, dark-red, free from adhe mons, separated readily from the Lidnes's, and showed no sugas of tuberculous disease or neoplasm The night suprarenal weighed 37 gm and the left alightly less. There was no pus or necrotic tissue and no evidence of ki inflammation. On section, the cortex was seen to be thinned and the gland dis tended with programmed blood clot. The medallary chromaffin cells had been destroyed. The harnor rhave had evidently begun in the medallary turne and may have concoded with the first sy scope Microscopec examination of both suprarenal

glands showed recent hemorrhage in the medulla cateing complete disorgamization of the cells and infiltrating the thin cortical laye Sections were staured for micro-organisms about result, and Gram's staining also showed no evidence of bacteria CARL R STRENGE M D

Thomson Walter J Rensirks on Pyelography Arch Radial & Electrock rapy 19 3 XXVII 334

The early and accurate diagnosis if many discuses of the unnary organs depends upon the dvances made in rounternology

The athor has used sodium bromide constantly muce April 1920 Its advantages are that it m cheen, unchanged by bother, clean and probably non irritating, especially in so per crat solution.

The important points in the technique of pyelography are as follow

The examination must be carried out without general anasthetic Previous experience in catheterization of the

reters is necessary

3 Before the opeque solution is introduced the fluid in the renal pelvis must be withdrawn by section with a syringe connected th the areteral catheter. The injection of an opaque find min a pool of retained urins gives a poor shadow
4. The opaque catheters should be of moderate

sum so that they all not completely fill the meteral lumen

5 The catheter should be passed ustil it is arrested and then withdrawn i cm

6 The nations should be on his back and the couch should be inclined so that his head is low

The roratgenologist should have the plates and tubes in pourtion before the pelvis is filed and should be ready to make the emosure welcost moving the patient and without delay

2 The injection should be made slowly and ith rentle touch

6 When puts is felt in the kidney the injection

should be stopped o When the exposure has been made the field should be removed from the read prive by section

The july-developed hydronephrous may be diagnosed without pyclography but it is of great importance to recognize early changes before destruction of the kidney tractes is advanced, and this can be done only by accurat reading of the py elographic plates

The five executars for the correct reading of a

prelographic plate are

The shape and he of the priving The normal pelves: trumpet shaped and set vertically on the upper end of the urreter. From it, the califes pro-

ject faterally and anteroportenocly 2 The shape and appearance of the calcus

The normal callyz has a short neck and an expanded and which is cup shaped. In the hollow of the cap hes the pez of the pyramid Cahees seen end-sa appear as rounded darker patches near the outer border of the shadow of the pelvis Usually, most of the calices are seen projecting laterally. Detes sonally a number of ead on calices are shown and may suggest stone shadows

3 An opaque catheter passes from the areter into the upper cally a vertically or ith shight out ward curve

1 The upper ureter the lower margin of the must refer and the lowest calva form a symmetry cal curve amounting to half a circle anthor calls the "uretero calicine curve

The expussion of the wreter into the renal pelvis is gradual and there is nothing to mark the

nount of suncture

The earliest changes in the development of hydropephrous occur in the calices. The cup end calve becomes rounded or clubbed so that the cupping desappears. The neck is shortened or broadened I advanced hydronephrona the cahees re represented by rounded have projecting from the expanded pelvis

The petyre bering t show changes in shape becoming rounded and sometimes almost square The upper margin is elevated and the lower margin n derressed. The over-distended normal renal pelvis should not be mistaken for an early hydro

pephromi

The uretero cabcane curs loses its symmetry and becomes an angle. The angle becomes grad ually reduced in size until ultimately t almost dis

appears

The upper wall of the prives is pushed upward and the line of the ureter and upper calyxis changed A catheter passed up the ureter will not enter the upper call but will impange on the roof of the pelvis, raising it up like tent pole or may coul

round and double into loop Chappers at the nuncture of the peirs and areter are then observed. The lumen may appear

sarrowed or the apple t which the preter joins the

prive may be altered Other uses for pyclography and preterography

are the following

The localization of supposed stone shadow to the holper. Preformathy will increase the accuracy of the localization

The localization of ahadow in the renal area With the greatly improved technique of roent emography new difficulty for the urmary surgeon and arrien as gall stones are now being demonstrated on the \ ray plate and show in the renal area or pear t it Pyelography will demonstrate the exact positio of the renal pelvis and cances and their relation to a shadow in such a doubtful case. If the shadow does not be over that of the renal peli m or calices it is probably doe to an extra-renal cause. Anothe method of differentiating gall stone shadou is lateral roentgenography and later pyelograph) The diagnosa of abdominal tumors. The

cases in which difficulty arries are those in which there are no localizing characters (such as a notch) or localizing symptoms (such as harmature or The renal pelves and calaces may be shoe to be at distance from the s elling The following occurred in the author' practice () mass of abdominal glands n a child, () hydrated

cysts its bed to the liver and (1) rectoperatones! SHICOMA LOTTE CAME VI D

O'Ned, R. F The Importance of Pyelography in Recognizing the Causes of Obscure Abdominal Symptoms. Beston H & S J o 3 dirava 671

Pyclography and ureterography are extremely accurat means of diagnosing and excluding lesions of the unnary tract. In some lesions of the urinary tract the symptoms may be typical and suggestive of their location but in others they may suggest a leave remote from the parts involved

In cases of supposed renal cohe it is necessary to exclude appendicitin calculus ureteral Link, and renal torson. When the urme is normal and the mentgeoogram inconclusive, the use of the opaque

catheter or pyelography and preterography are in

The differential diagnosis of lexions of the motor abdomen is equally important. Pain may occur in either quadrant and the physical examination may be negative or mulesding. The conditions t be differentiated are distention of the wall bladder meantiene cost, renal lessons intra- and retroper topeal growths and pelvic turnors

Pyelography b bospetal procedure and the patient should be kept quiet for several hours fiter the examination. The contrast medium is I giper cent sodium sodide solution. The fluid is injected slowly by the gravity method and the injections should be stopped at the first sum of discomfort Simultaneous bilateral pyclography is t be con demned, especially if the kalney are known to be damaged. The picture should include preterogram made by withdrawing the catheter and inject ing the irreter

Pyclography is contra indicated in tuberenlesis acut utman injections, and large hydronenhymas in which the diagnosis can be made from ordinary

catheterunation of the ureter also in the cases of persons whose general condition is poor and those who react violently t matrumentation Locus Vectoraly M D

Dyke, S. C. On the Pamage of the Staphylococros Aureus Through the Klaney of the Rabbit. J Paid & Backered 0 3, EFF. 64

The uthor gives the history of the study of the subject from the investigations of Cohnheim in by to the present time Before Cotton's experiments a th the staphylococcus aureus in 1805 it was generally believed that becteria are never excreted through normal kidney In 1896 Biedl and Kram found that the staphylococous injected mto the blood appeared in the unine in a few minutes Uncentrate good made almost the same finding with regard to the bacalles cole as he discovered the becterrs in the glomeruli and Bowman's cappiles In our Lepper mang coldorn bacteria found that in the becare of lessons in the kidneys the organsens did not appear to the arms and that the initial leace as a bacillary embolism of the capillary week I the papille

Is Dybe's experiments on rabbits the total insected into the blood stream did not appear in the

arine in any instance in less than five hours and could be demonstrated in the Lichneys only when the organe were removed from the experimental animals and incubated within five hours of the mjection I Lidneys removed filteen minutes after the injection, the cocci were detected in the glome rub, the capallance of the talt were engaged, and small coreal emboh were seen. Dyle concluded that destruction of roces by phagocytosis occurred in the glomerular tuits. In kidneys inted after eighteen hours he discovered abscesses which had their ones in the reside and in olved the tabules subsequently Later specimens showed abscesses in the medulla as well as the cortex In kalneys removed forty-eight hours after the injection, an bicces was demonstrated in the glomerulus still bounded by

Rowman a capsale
Dyle concludes that normal ladneys are not
capable of exercing lying organisms circul ting in
the blood R believes that in his experiments
result knows ere present as soon as the cocci ere
demonstrated in the balleye but ere not sufficiently
gross t be demonstrated until after the lapse of
capthen boom. These knows he attributes it the

lodgment of coccal coshole in the small vessels

8 F Routes, M.D.

Viagoun J A. H J Renal Punction Policeting Nephrotomy Surg Grace & Old 933 xxxvi,

In four of twenty-one cases of complete nephrot only performed t the May. Clear for various conditions and in tw. f. to cases subjectively had been performed apparently was necessary on account to harmor

thage Experiments on nimals are carried out by the author to determine the amount of destruction and the consequent in engal of real-effectory resulting from replandomy counts. Four series of experiments were conducted, () but their in experiments () the resulting contraction () the contraction () the remarks of the contraction (s) the remarks of the following contraction (s) th

only and removal i the test acceptance on treaty-three dogs Stones were formed on twenty-three dogs Stones were formed in adopt American and the stone of the sto

The other draws the following conclusions
The arrangement of the arteries of the ladney

is different in man and the dog

In the dog complet aephrotomy bilateril or unlateral, may be performed the maintenance of life and cental function. A sargle kidney abjected to nephrolithotomy will maintain sufficient function to support life and health

A serious danger of complete section of the list

ney is secondary issenouthing: Smaller increases may be made into the ladney to remove a stone with small risk of secondary bleshing. 4. Generally personours at the operation of choice

4 Generally pelviotomy is the operation of choice in the treatment of renal calculi: in selected cases, however nephrolithotomy is indicated.

Crosble A. H. Kinks of the Ureter Due t Aberrant Yessets. Basisa M to S J pzj., dr.xrva, 5/2

Any vessel crossing the ureter to the lower resal pole may came obstruction. Vessels coming from the resal vessels or the aceta and vena cava he anterfor t the ureter and may cause obstruction close t the ureterspelvic juncture. If the kidney he me the pornial position, they are histories.

Abertant reachs are responsible not only for nam cases of Deell' criss, but also for recurrent prototophints, chrone hydrosphrous without crises hemitteria, and benillrine. Obstruction to the free flow of string leads to infection.

The is upstoms caused by brails produced by abernatic seeds any according to the acutesons of the obstruction and the amount of infection. In some cases out frequency may be present and there may be no pain higher than the bladder. There may be may not be pain on the said affected, and frequency, my or may not be noted. The times may my as close or appear normal, but administration sensity reveals a few erythrost test and proceeds or both Severe cases with very actue node and pleighter complete, the obstruction of the uniter the norse complete the obstruction of the uniter the norse combit the Maker crosses of acress.

The puthologic changes may be very sight as show all degrees of hydroaephrosa and procephrosa. The diagnosa is usually made from the py elegant, but may be suggested by the history and symptom The technique used by the author as as follows:

Both urriers are entheterned, the eatheter being passed t the renal privat Pyriograms are made th the patrent holding his breath. A second

pyelogram is then made with the culester rik dra a few criminaters below the read petra, thereby revealing the presence of Link Three or four cubic contineters of solution are sujected mat before the preferance are taken

The treatment is operative. The free oblogen cases need for explorations we employed in order to expose the petrus and netter freely. If there is no brytenephranes and not much network the bestant used is drunded and explorators is done if large by demopshrous in present, nephrostomy is done after the vessel is cet, and robber into drunings through the indeep robustance to be petrus as munitained for a week. The operation about the system to precede by producings it judgment.

should be used in cutting large casels going to

the lower renal pole as this may came renal necrease Lower Mercant, M.D. Thomas G f t The Distinctis and Treatment of Descent Calcul. If results Fed on t

Climes observation and animal experimentation demonstrate that infection plays a majo rôle in the production of renal stone. The author reports study of the history and chairs! findings in fitte cases of ureteral stones. Infection as present in ar ner cent. In m nor cent there was infection in the teeth toronta and sunners Seventy to seventy five per cent of renal stones pass from the Ladnes I about 4 per cent of the cases the stones are found in the night night in so per cept in the left ureter and in 1 per cent in both ereters. Stones are found in males three times as often a in females Lighty per cent of stones found in the reter are thin the lower this design the middle third.

and 15 he cent in the wretero pelvic nuncture

Vencal imitability is noticed it some time during the namer of unrecal stone in about 80 per cent of the cases. This is fortunate as the sum frequently assets in the differential diagnous from other b dominal or pelvic conditions. If stone completch obstructs the ureter escal protability is not freement unless the obstruction is in the bladder wetten of the ureter. There is more complaint if frequency of unnation than of burning. The durnous is often difficult and depends upon series of findings such as pain excel irritability positi X-ray findings positi pyclo ureterogram ob struction t the ureteral catheter od positi findings on himan all cultination

The thor emphasizes particularly that nectoral stone should be thought of every case f h dominal nun liboneh not all ureteral calculi cause roun in their masser. Differential functional tests do not indicat the true function of Lidney buch has been temporarily damaged by the presence of

western to street

A calculus may remai us the preter for months thout causing pun or permanent damage t the being hinety to per cent i screteral stones DIA STORIADEOUSLY or can be removed h manny lution 1 permanent ureteral catheter prod es dilatation relieves pain, and facilitates the exand quick pussage of reteral stone After tre t ment h h includes the removal of 11 for of infection in ge of the ladger pelvis et in m portant nd should be carefully and thorough) ried out because infection is one if the etiological f ters in the production f ureteral tone If patient comes from localit in buch the umba

of case of unmary stones is large the drinking ter should be boiled HARRY & PLACEMENT & VID

Walters, W Surgical Treatment of the Ureter in T berculosis of the kidney Museumia Med

The unster which is involved—the inherendous process injecting the kidney is often the source of post perheectomy dramage. In cases in bigh the wreter is tractured close t the bladder to

essential that it be removed below the point of parrowing at the time f penhrectomy

Various methods ha a been employed to discous of non strictured preters, such as limition and can tery sterilustion of the stumn. Indd lieutes the preter and threads the stump rate rubber tube thus solating am infectious drainage and llowing the good to heal by first intention

In a study of the end results in 3 patients who had been nerstreet muzed for renal inherentials t see found that compression of the stem of the wreter bestood of the prefer th catent and ca tenzation of the stump en e the best results. In all ner ent of the uses there as primary union before the nations

a sa diamined from observation

The forcers method (sealing the cut end of the reter for from fort eight to sevents to hours a the purs of forceps on the renal pechcle) gave only fair crolis. In the majority of these cases the forcers were used to control the ascular nedscle of the Ludgey and the preter as canely in the same closure. The method med only to (merecocy because of short reducte

Sut ring the reter t the ski incision was also unsated closs. W. [M. o removes all strictured streters t mount below the structur. In other cases. he lamme the ureter til a harmostat divides t ith the tery and drops it by k without a lies ture which he believes mucht act as foreign body After thorough harmostans the newson is closed thost drain re

iona

BLADDER, URETHRA, AND PERIS

Leaven and Rochet Feri eskest and Pet to Cell litis After Certain Cystostomies or Surregulate Prostatectomes il es cilules remesales es t omes to puberance) I are sed at a 0 1 10

Superpulse existostoms is tody uso by a thout omnik tons I this article the authors discuss ses I long standing unnary infections, expectable those associated with prostatic disturbances which been bjected t cystostomy In rare cases local or even general omphe tions me follow a st perpulse operation especially when the essent opening on traces slow! \ prolonged retropolar urinary stagnation de lops the pocket formation Veskal and h pogastric drain ge gainsly clears this n but sometimes the affiliation increases spreads round the base of the bladds into the retropolac and from there extends along the abdom nal all near the inguinal canal or penetrates the

Usually t descends int the true pel is and points out through the biurator foramen under the d doctor muscles of the thigh. It may erode the pos terior urface of the pubes and cause outcoms cirtus I one case observed by the uthors there was a true mphysi arthritis Pressur on the soft parts over the pube becomes en pourful and eventually

when the infection has passed into the thigh adductors, permanent thigh flexion and diluction result. Presente on the adductors at the polyic end is painini General symptoms supervene and scoticzenia begins

A second type of complication, which does not depend on such infiltration, occurs long time after the cystostomy when only small fistula remains. In such cases sounding is no longer done and there cus be no niceration from an inhing catheter be cause it has been removed. However small abaceuses develop slowly there is slight fever and the general condition is poor. The abscesses may posst at the vencal opening, the ilis fosse, the abdominal muscles the pelvis, or the persacum. Following the drainage of one become new points of infection and abscess develop and the condition becomes aggrevated Pelvic cellulatis follows, the bacemes spread to the hver and death results from septicernia

Several hypotheses are advanced t explain this addition. The infection probably comes from slowly developing low prostatic abserva, an abserva

ithin the bladder alla, or chronically infected prostatic methra

The authors believe that in old prostatic cases in which there have been multiple explorations and soundings the deep urethra and the bladder mucross may be the sites of chronic pleasants. Infection Under such circumstances the infection is easily transmitted to the hymphatics of the bladder and prostatic wrethra, this leading to the formation of the multiple and sometimes distant abscesses men tioned. When the pelvis has been desected by the

bacemes, nyaémia results Hypogratric afiltration and pelvic cellulita are also encountered after prostatertomy but very few such cases has been reported. The athors say short he exers occ. sight arom at prosts tectomy. These inflammations are exactly like those following evistostomy and are exceed by the same mechanism. They are more apt a develop after prostatectomy than after cystostomy on account of the larger opening int the bladder and the greater amon t of trauma in the former operation. Pelva. cellubtes enreads from the poorl drained and infect ed bed from which the prostat was removed I one case in like prostat as large as first was removed infection of the prostatic pocket followed, and in apit of perinent drait use of the bladder progressed extended t the h er nd

After partial exstectomy especially for malignant temors and near the bladder base these complies tions are frequent and easil explained. When the bladder is anipotated the faxta cervical portion the infected unne easily stagnates in the operation field and behind the bon ring of the pelvis in spete of the pproximation of the all be sutures and the use of large suprapalse drain Hypo eastric infiltrations and pelvic cellulitis are fored

The following rules with regard to the suprapulacocusion ha been generall accepted

: In uncoversage the bliedder do not free it less behind the publis and in pressing back the peritoneal end-de sic keep below the superior harder of the pulses. In this sy perhencal and presenced cellulitis may be prevented

2 Do not extend the bladder inches too low into the vesical acci, so this would me the arrase an opportunity to stage t behind the morphus In making a true cystostom t form fistely. the lips of the bladder opening should be sutured t the stager in the cases of fat patients, to the internal borders of the rectus I a prostatectomy if the gland is very large, the bladder incusion should be enteneed transversel rather than toward the neck The bladder all may be sutured t the muscles t SCITE AS guide for the extering figures. The condication of the printate tenst be done firmly but cently and thout tearing the bladder or leaving ragments of the gland. After the gland is removed ts at should be tamponed ad the bladder all

closed around a Freyer tube If signs of infection appear expectably unexplained faver it is best to meet permeal drainings t the lateral aides of the biadder not directly in the midbae. All other abscesses should be drained as

early as possible wherever they point ARLEONG SPEED, M.D.

Hymna, A. Diverticula of the Bindder in Children J Led ott 15 41

Directicula of the bladder re not nounced in adults but only three case of this condition in chil dren under a nears of age h a been reported sa the last seventeen years although these pouches re generally considered t be congenital. The true diverticulum comprises all the coats of the bladder while the false includes only the macous membrane One actional maintains that the condition is congenital, another that it is sequired and another that there male va a consental predemoniton to its des los ment. The contributors factors are uncrewed dis

tention or activity of the bladder musculat ir The ar erticula may be single or multiple. Their range in size from th t of small plum to that of an arrage and re most senous when the) compromise the preter. The cases are not murally seen until urman infection superveners. All of the cases studied showed residual time and muru. Durg nostic signs are scute retention hemistaria pourse residual urane and distration of the black but definit dramous the evistourope and epit gram are essented

The prognous is good and the most lit is low on surgical methods of treatment to meless for cure radical exterpation of the eac is necessary When the arcter has been occluded at arrest be

di ided and re implanted

The athor reports there cases treated at the Viount "tha Hostatal those of male children o cars 9 months and 1 years old. All ere cored by oper tion. In every instance it as accessary R F ROLLTE VIP t re mpl t the wreter

Cuber H ad Forster N. k. Primary Carein ma of the Urethra. Surg. Gymer & Obst. 923, 3335 473

The a thors report three cases of primary car choms of the urribra, t o those of females. V not and Parceber classify carcinomata of the female mether as follows:

I True prethral carcinomata

The alcerous type This is rare only three cues being recorded

b The infiltrative type. This is somewhat more common than the ukerous type but Percy found only intenenciases in 903 Karalis found only in fees in 903 and Whitehouse collected, ally several in 9.1.

If Aul rethral curcinomat

a The polypoid or papillary t pe About fifteen

cases have been reported b The ukerous type The moplasm begins t

the meatus or is scinity and hollow out and de stroys all the neighboring tiesnes. Seven cases of this type has a bec. found in the I terature. The afiltrat. type. This is the most com-

The anitral type This is the most common type not usuall begins as small meetal tumor which soon invides the establish the urethrovarial sentum, not the surrounding structures

The same bashfarton th suitab iterations my be prived the make the true urethral tipes of carrenom rising from the urethral epithelium or its glands and hong of accross or milit rise character of the par arrenal types arange from the private manner of the part arrenal types arange from the gridthin marrow ding the meating and in dwing the ur thris secondum! The latt

so) be alectron, as in malignancy following chan created infection, or fit at spreading from the glands or the surrounds gracutures and motiving the methers gradual! Finally, there are causes resulting from the mal gin in degeneration of papel tom, in the present of the may have the property of the major that the property of the ma

Histopathologically the neoplasms are squirmous, columnar or denocarcinomatous type The latter is the most uncommon \ is true of males nant tumors heaters the bod the direct cause is unknow R ports indicat that the incidence in both seves a greatest bet een the ges of 4 d 60 cars Legeophila his by considered of imthors Carun k as port are his some runner is undoubted! of onsiderable consequence although me twored onl about percent of the case reports in the bierature. I pecially does thus scen t be true an subjected to frequent th term than causing brank unit tion. Structure and bronse u thri is in the female are not generally considered of important 1 raum nd preduposition at given ontick like cuttle by the m port of a thorn O had go es the predisposing the male t m leucoplaksa from brossic urethral art ton and trictus formation The litt is persent in a per cent I the cases O hel believes that in the majorit of instances the icsson arre from the bulbons prethra which is the most common structure from toon

There are two recognized methods of treatment, operative procedures and treatment by physical agent such as radium and mesothorium. Ande from the cases in which an extensive operation was done the surpost it resument of urethral cancer has been attended by Imost no postoperative mortality.

With respect to the use of radium and mesother run the a thors state that in inooperable cases this method of treatment is the method of choice. In the few reported cases in high these agents have been used then has been of benefit. Surgery com-

bined ith the use of radium has also been effects of som cases.

I operable cases it seems logical to use both surgers measures and radium. I maus o doses of the V-ray. Just what results might be obtuined from the use of surgical divitering combined with

the after use of hea 3 doses of the \ray is a problem for the f ture

The prognous in these cuest depends, oparently the st ge t which the patient seets iterations as all the associated pathology which may be present I am see a til must be considered grafor ben not the timore has become established they issuitly evolve ery rapidly and the dasager of courrence following operations procedure it great. Consequently the estiret the cause are seen and treated the better the chances for recovery recovided recourse in had to the proper us goal procedures followed by the publicuous use of the Vinyor rapidle.

The Planton of the Pla

CENTAL ORGANS

Landau, II Vasectomy as Method of Treating Protestic Hypertrephy (Leber die Vasektonie als Behandlungsmethode der Prostatskypertrophie) hli B. karde 0 3 55

Since Habeter in 19 reintroduced (section) for the treatment of prostatic hypertrophy or as a preliminary measure, this operation has been per formed in the surgical hase of the Chanté Hospital (Biddebrand) 1 cm (y sur cases In sistem its results are good, but in ten I was unsuccessful.)

Of particula importance is the fact that when the radical operation is contra indicated, safectiony followed by the use of the retention catheter for from four to at which sometimes referres the simptonis for counderable length of time the ability at the contract of the counterpart of the counte

Young, H. H. Prost tectomy Pro-Operative, Operative, and Postoperative Treatment, Surg. Gyaco & Olid. 9, 3, 22271, 589

PRE-OPERATIVE TREATMENT

In loong someon properative treatment has been the choef factor in reducing the mortality of productedown? Preluminary dramage is indicated unless the amount of residual urine in small and the badies; in factors and general conductor are good loong emphasizes to the importance of injecting

large quantiles of water during the pre-operatic treatment. To distraint the treat junction he has used the phenoleulphosephthales test those was mireduced by Geraphy. In Roostice I lie finds that during thorough pre-operatic preparation for protestactions the philadesia output graduals increases I a stationery level. The blood chemistry is also tested in every case.

The allu tion with regard t the kidneys is swimmarized as follows:

t Ren I impairment is proportional (roughls)
t the back pressure in the uniters

2 This is churacterized by dilatation of the ureter the perry, and the capies and thinning of

the renal corte
3 It is most common and most pronounced
rationals with large quant to of residual urine ho

h not been catheterized

4 It is less prosounced in cases with a large

quantity of residual some in which intermittent catheterisation has been done 3. Mucked importment in 3 occur ben there is

less then 400 c cm of residual irrae but march axes to be frequent 6. It occusionally occurs when the amount of evidual tring is small (less than 100 c cm) prob-

ably because of frequent and prolonged urnation during which the areters at closed ad pelic distention occurs \u00e3oung finds that infection very frequentil acc k.

toung finds that infection ery frequents see it ten a renal lesson but thorough continuous catheter draining will cause improvement

A there is diager of supersono of time from the modeln sure time of grant I distended with a young forces the dissistant of terming it, it coresary by influsion or be return when be finds the quantity of readual time over soon critical principal to the distinct of the d

Infection 1 the cause of a large sunber of f talitles I some out aces it spreads t the prostat and secural cucies, producing chrome prostat is and receipts or a abserve if such an inf tion reaches the Lidner 1 may be err serious Infection is som times present a cases that ha ant been catheterized, puriscularly hen the mount of readed unse is I fer Almost all cases become infected after prost tectomy Young statuties seem to show that coses the mild THE THE S smoother postoperati course and are has to feve ad toxenus this previously sterile cates In so per cent of his cases he finds epidalyimita a troublecome complication

I cases of bladder calculus suprapolus drainage may be required especially if the exercison of philaden is poor and if retained extileter is not well tolerated. I reviewing east cases Young found that suprapolus drainage as done in only

t her cent

The arguments against suprapulse drainage are summarized as follows:

Suprapulse drainage requires counderable attention
 It is contra-indicated here the quantity of

residual urine is la ge the phthalein extretion is poor and suppression is feared 3. It is associated ith mortality of t least a

per cent (Gardaer says 3 per cent)

4 As most cases require dramage for three week

4. As most cases require dramage for three week or longer the supraposite scar tissue is more of a buildrance thin the firtula is a help 3. Urethral catheter dramage is the silest and

most sathfactory method

Young ducasses several of his cases in which death

occurred because a critheter was not well tolerated Most of these patients had a severe infection and it death showed prostatic abscess or proephrous Misdder draining is susmingured as follow

C set in blch the proceal condition and the phthalamentum are good of the quality of residual whose does not extend too c.c.m same be operated upon without preliminary drawinge or more than upon without preliminary drawinger of more than ordurary surgest preparatory treatment. Of the author's cap cases 16 ere operated possible for days of their admission to the heavily.

Cases the amoderate or large amount of rendual urms aboutd he preprintery dramage and forced ter tre timent even if the philablem return in good but often in 3 be operated upon in each if the chancal and liboratory findings are fa orable

Of cases the nursel inputment of read true has up or cent or sea should not be operated from small the philabelean accretion has reconstraped conformation from the present of prodonged forestances (for three relate or longer) has about that the optimism has been reached the condition of the bidnes is table the blood area does not accred to you per later and the general condition of the bidnes is table the blood area does not accred to you per later and the present condition of the bidness of the

Cares inh high blood area (over 73) should be go on most energitic tri tment—from 7 con to one of a ter duly. This applies also to cases a thermal infection especially acut median

cases as the renal infection especially aint profits Superprobe dramage may be indicated at cress in but the bladder or methra is spanned, pounds or contracted cutta. Cases 1th citeds, certauses that creamls tumor where are not spatial, or hand curent. but catacterization as end distillor prandial or an indiging eatherin is poorly tolerated and there is pronounced supportation and epithdyand there is pronounced supportation and epithdy-

I the two-stage superpolite operation, the first stage in often the most disapproves. Almost evercase can be brought into condition for persistprostatectomy intoot first stage superpolite drawage. In the withor is, 240 cases, superpolite drawage was used in only elevan (i per cent). In last soo cases there are only is no deaths before operation and soon (terward).

Persons with diabetes and aculous can be subsected to periscal prostatectomy if they are properly treated before operation. Ether angethena nonlonged operation, bemorrhage, and infection must rentoes' exhects if it is a shall come exhects in the standard observer in removement and the come when the standard observer is a shall come to the standard observer in t

owner finds cardiovascular disease very common among his cases of prestatic by pertrophy Arterio sclerous, which is also common, is negligible unless advanced loung his operated on many patients with a history of anothers and with high blood pressure High blood pressure is dangerous decreese t come recommends rest in bed reduced diet, and drugs Excitation before operation and after operation should be prevented by morphine or other doors. Young regards ether as carried timulant for these cases

A heart lexing was found in 48 per cent of of cases, but in the 1 010 cases reviewed there was only one operator carcha death In some cases in which Shellation or other senous heart condition was found longs thought t best to send the patient home to lead catheter life rather than t ttempt operative

I cases of resourators injection operation is contra indicated until the infection has been thoroughly controlled. In such cases aniesthesia should be induced a thinitrons onde and oxygen

In the cases reviewed, pulmonary embolism was remountly for one death donne preparators treat ment and for my after operation. As one of these animents died following an enema, arm to re po loaner given after the operation

TREES D \$ 101/ROST

Young present method of evnounce n verted U increson is made in the nerineum, the prostat is reached by blunt desection on each side of the central tendon, and the space behind the transversus periner muscles and transcular larament is opened up. After division of the median line structures (central tendon ad recto arethralis muscle) the posterior surf re of the fascia of Denotythers is exposed. Division of the posterior layer of this fascia gives entrance into the space between the t which in letal bie, were posit neum and gives easy access t the prost t wennest encies and are deferently

Young believes that this method of exposur has an advantage over the old method in that the harmorrhams bulb is avoided the external sphineter and triangular hamment are spared, the anterior surfac of the ectum can be readily the prostate is exposed so that ecurate operative procedures can be carried out. He opens the urethra by means of an obbinus lateral or an in verted V inco-son. This reakes i possible to enu cleat the entire adenomatous hypertrophy in one piece and i remove every part of the prostate without injuring the neck of the bladder or the internal aphincier Exploration of the area under peath the neck of the bladder is much easier a th

this technique. The article includes several draw ones which dilustrate the stens in the operation

A table showing the relation between age and mortality after prostatectomy indicates that the percentage increases gradually with each decade of hie, but up t the seventy fifth year remains very los. After the seventy fifth year the operation is definitely more dangerous. However of the last of cases contained meen by Young custicen were those of men over 75 years of agr and six were those of men over to In the series there were no deaths

MARCHEN AND TREATMENT

In the 1 am cases reviewed there were thirty-six deaths in the hospital, a mortality of 14 per cent A chart of these cases shows a gradual decline in the mortality of perincal prostatectomy from \$4 per cent in toos to #4 per cent in 1010 Since toto there has a been no deaths. Dunne the last period. in which there were of consecutive cases without death four nationts were refused operation two

of these thed in the bosostal All of the mattents received plenty of a ter before they were sent to the operating room Careful bemostass, quick operation, and control of blending

after the dramage tube is emoved are methods which Young finds will prevent abook

Pulmonary complexations have been the most frement came of death. Premponia decelored in a ner cent of the cases. In the earlier cases it was one t ether anesthesis Since the use of n trops aride or, gen amusthems, it has been prevented. The retient should be kept arm and should be out of hed as soon as nosable

Uremia and the cause I death in 20 per cent of the cases. This is a direct result of serious immust ment of the kidneys from back pressure or infection As a rule the infection responsible is present befor operation, but may exceed to the kidner after ward I come believes that the risk of premis re one that must be assumed, but that by prolonged catheter dramage and the diministratio of large amounts of water the patient can usually be brought into sale condition for operation

Pulssonery embolsm was the cause of death in per ent of the cases In some instances t occurs as a coult of endocurintia, but as rule the clot comes from the remon of the wound Cerebral harmorrhage occurred in three cases and cerebral thrombous m t Heart disease was responsible

for only to deaths

I Youngs opinion there is no more important feature of treatment than the prevention or combat mg of separs. H finds that the most frequent offende, is the epidici) mis. If uses many different kinds of ninepties for irrigation of the wound and the bladder Ascending infectious of the kidney pelyse and cortex be treats ath internal bydrotherapy In some cases submammary and intravenous infocione are necessary

Gastro intestinal complications do not occur f equently but require attention and vigorous treat

ment. The use f national sygme anasthedis his practically done away with postoperative natisea and vomiting. The patient mis drink water in abundance est. Abdominid distintion from obstipation or intestinal obstruction is much less frequent after perfined prostatectomy than after the gargatuble operation.

In the care of the oand after permeal prostatectomy in Young's cases the grane and drainage t best are removed, than tharty-six bours after operation and are not replaced, the mine then being allowed to excine through the lateral periors! out-

hich is irrigated superficially a th a mild antiseptic at each hange of the dressing. We transforced through the methra find hays after the operation. The privage I amound is not necessary

The cloture of fivilal is usually spontaneous, occurring lithin the first three week liter the operation. In 1350 cent of lither week liter the operation. In 1350 cent of lither week liter that is not remainded by the state of the producers that is a persent in only fit and in the litter the portoperative treat ment may have consisted for failure of the first lither to construct of lower per tent of young principle of the first lither than 1500 cents of the lithing to construct of the lithing to the lithing that the lithing tha

The ct of inferention may not return to sorral to be writted et or monits. Incontaneor of state in rare. In 450 cases hech loog pay foody reported there as not a single case of complet continence but there en three cases of storage intentions when the patient is on he feet. Joseph intentions we the patient is on he feet. Joseph intentions with the patient is on he feet. Joseph intentions and entirely open operations lack of the buffer and entirely ophister all of which structured and entirely ophister all of which structured should be unfertilly orded. The irrelate absorbed by opened far back near the apen of the prost t of libehand all aphinterior fibers.

to a significant to the set of sectuation is distinctly more normal for perinell print tectors, the site is upon the site in the section because after the former thrusternal sphacts is outsilvestored to sormal, hereas after the liter it is usually

widely dilated

Of the last series of 98 cases which young operated and in which there ere no full ties

per crut were those of men over 70 years of age. In 30 per cent of the case, the exception I philadella was below 50 per cent I 8 per crut the blood urea was er 0.50 pm per liter Larda duesas was present in 40 per cent Preparatory treatment as the catheter as carried out on

to per cent of the cases, and suprapulse drainage in only per cent. The a erage length of time the prisents remained in the bospital was third -ts days. Gurrar I Troyan M.D.

MISCELLANDOUS

Giffin, II. Z. Harmeglobinuria in Hemolytic Janualice (ed. Let Med. 9 3 xxx, 571

Gefin reports the ane of women aged 11 years. he had developed alight faunding and anymus following a protracted convalencence from influence there your before I for my months the autumn and fundace ere marked. On several occasions there ere anexplained attacks of beschebe, depression increasing jaundice and dark prine Il bra area by the utaor a blood examination showed armoglobin as per cent, 1 060 000 crythrocytes, 3 loo lescocytes, and relative lymphocytous. The retarglated red blood cells - ere increased, the calcium and prothrombin time was prolonged, and the frami its of the crythrocytes increased markedly. The plat let count as o ,000, but there were no pete this The spheen did not seem to be enlarged. A test for a philip was entirely negative. The trune contained varying amounts of albumin but no custs Rile s found in the stool, but none was present in the unite except during the cities

While the p itent is under observation she had as a severe post acted erress hick closely small of those of hemos is paundue, but were albest eight barder close the attention are compassed by hemospholenstra. It hursey one altack endough a resided historial burney one altack endough a control of the contr

organics hore seems or seems, calcom transcommenter or apparent thest effect. Moreover kernogrobanun seemed prone i occur shersert hie erithorvers rose to approximat ly ,coo coo. Daring one reassess the patrent as give rook bath and at times to byn ere placed over the loom, though debetrous effects. Moreover througholdower and not cover! fossing blood tran-

fusions

The uthor briefly review the literature, posting out that hamoglobinium in hemoly its jumides is uprinted. Septembered condition entirely metabolic september of the phase and did ning from the hamoglobinium cassed by chiling. Sodden increased hamo is apiles destructive renal secretion in measured as probable exchapted literature.

SURGERY OF THE BONES JOINTS MUSCLES TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

Trauma and Tuberculosis of the Zollinger F Booss and Joints (Tranna und Tuberculoss der knochen und Gelenke) Schoes med Il bunche bs, 05 16, 54

As tuberculous is alway caused by the tubercle bacillus trauma is I ctor in ta etiologi only when the bacult enter the body through the wound and the general or local renatance of the body as lowered by the more Inoculation tuberculous is a primary and purely traumatic tuberculous a thout open layury of the akin and the soft parts in the region of bones and joints such as occurs ery rarely

rule there is an aggra tion of an active local t bereulous already present or a metastant at the area insured. Aumerous experiments on animals. indicate that tuberculous may be localized by an tajury Injury as an etiological factor mys be assumed only under the following conditions

At the time of the injury the person agured must ha been enturely free from tuberculose The injury must he been such as would he

brought the tuberric becills to the rea which be came diseased later and such as ould have lowered the general and local renstance

3 The pury most ha had afficient force t CREE anatomical invity of the hone or joint 4 The injury must be caused immediat re

sults 5 The period of time intervening between the injury and the development of the bone and joint t berculoses must have been that length of time which at necessary for the development of inherry loss. The minumum time is from four t six cells. and the longest time-tuberculous of the skull priva and entebrat-one year

6 The tuberculous must have developed t the point of more

7 The minediat results of the inpury must have pessed over int the modrome of the discuse 1th

out interruption Tra matic agers attorn of tuberculous alreads present can be assumed only if the discused area was injured f the gars tion followed the immeimmediately if is development as more rapid than usual, nd if at the time of the injury the tuberculous as not in an advanced stage

Bath Van (Z)

Lenns, D. Myonitae Omificant J (at II Ass. p.)

There are three forms of circumscribed myoutle () the transactic, () the non transactic and (1) the neurotic, hich usuall is associated ith ar

throughhes or fractures occurring in tabes, demen

tia, or syringomyelia Antiner Bender Schwartz, Werner and Cran well have reported cases developing after puncture or sinb acounds, and have timbered the presence of bone in the soft tissues to esteogenetic than dislodged into the nessed wound by the missile

Lewis reports two cases in which bone developed in the scar of an abdominal operation. He attribtes the development of the bone to the meta plens of connective turnes without estergenic elements. In one case the linea transverse was inensed Thus is the remains of a rib bich tone time extended toward the median has. There is question, however whether or not t contains osteographic elements. Phemister and Straus have shown that bone may be formed in fascus or muscl as a result of the ction of and secretion on the tunne. In one of the cases reported in this article a restro enterestorm had been performed, but in the uthor opinion not enough gustric Julce exuded into the messon to cause bone formation

31, onto ominera following posterior dislocation of the elbow causes considerable disability as t senously interferes the flexion and ext muon of the forearm. Undoubtedly it develops as a result of persosteal stripping with displacement. The stripping usually occurs over the external and the internal condules, over the posterior surf ce of the humerus abor, the olectrapon fossa and above the amora trochlear foss:

My outre configure develops rather rapidly in souscle. The roentgen ray shows shadow at the end of two ceks, and at the end of sax weeks the gradually increases in density. Machol describes the roentgen ray shudow as a dotted veil which gradually necesses in density until bony trabernles are observed. The shadow may or may not annear t be attached to the adjacent hone

Salman and Pelser reported cases of myositis ossificans developing fter infectious processes in

muscle the result of degenerating my outle followed by calcification and bone formation

Differentiation must be made between hamatoma m muscle and muscle callus, an interstitual syphilitie process involving muscle and various types of muscle temors. It is important to differentiate bet een m) onto ourficans and malument growths. as amputations have been done hen the former as mistaken for mahanancy. Persontesi sarcoma and myoultis omnicans can be differentiated ery definutrly by means of the roentgen ray Mycultus conficens that its maximum use early and remains stationary for some time or chminishes, while osteogenetic sercomata grow rapidly sthout any tendency to remain stationary

None amouth outlierant tend it recede after attinuing its maximum invaligal it is movements a titinuing its maximum invaligal it is movements in until the process has subsided. Been should not be temored until it has received definit form and density and then still continues to cause disability from the process has successful.

W first Ter Acute Outcomy eliths of the Vertebras (Mart Outcom) hist der Hirbelesenle). Dentschr med B. knicke. g. p. Mr. 3

thor reports the case fla 4 year-old box who developed a abreets following an labor, which he recen d while working in neat-log The abserss a s incred but he general concluses be t me more serious. At the end of eight days th sical samunat in revealed till ess of the neck. wak redeset, and redemators elling of the soft timbers on both takes of the spine at the level of the eighth t the eleventh dorsal ertebrae Lambar poperty elevated put with a ledmintor of blood (staph) becare prepents area.) Became of ob-lection on the part of the low's parents, operation an not performed until four day later A long breadon as made from the month t the leventh dural vert bee. Paravert beal absceres were found. The s telese were bathed in rec Laminer. tomy revealed extra nd subliggal post Death ocurred t days later

Wagner gastimes that the focus was in the body of a vert brassed stributes the fatal result to the large Piece (7)

Moream, J. Osteochondriti Dissecta of the knee (Losteochondrit desectant d grane) Arch (uncadelprode for 19 3 220). 1

More report the case of low ared 3 prime to 3 are and half pers only had struck the next subset of the rather knee again to meal but The blo cascued sharp man, but this soon eased and the boy tunged to 1. Set months late knee a suptom apported In Set months there is not superior of the later was painful been then trent or of the the more a and walking or tensors nearly exceeding from In pure as referred by the patient to the internal configuration and clothed on previour to the post of the low of the configuration of the tensor of the control development of the tensor of the tensor of the tensor of the substitution of the tensor of the tensor of the tensor of the substitution of the tensor of tensor of the tensor of te

Tre ment ith giverophosphates and other tonics a followed by clinical and functional

recovery

More in cream, the subject of national number of the subject of the sub

the joint. According t another theory the necrosis is due t traumatism

The condition may become curril opentaneously, as in the rither case but if the pairs artimes and the huncitonal distintances are private operation for the remost and of the cereously of the company of the condition of the cereously of the condition of the chiffienth in a lang as the pair mustly rease even when they were marked and of long duration.

9. United Section 1.

SURGERY OF THE BOXES, JOINTA, MUSCLES, TENDONS, ETC.

Kerk, A. The Revults of Orthopedic Treatment of Tuberculous Coulds (Revults der orthoper clucken Behandle g der Coulds i berculous) Judie f orthop Car e 2, nim to

In the treatment of contra prolonged relet from weight bearing off monthleatment for the contreproduct. Henceberran monthleatment for contractions are supported by the constant and learning for his is often intuited to it and excess, unadation frequently approached for the condition. Moreover belockherray above does not overcome the pass of source routes fresh art treat ment which is possible when a unbushirory plant.

ca t is used, is rusch more beneficial Arch, as able t recursioner so patients from the Musich line utter period of fines three to ten years. I shill of the cases the condition devel cases, between the condition devel cases. Severaly feet per creat of these patients were cased, between the period of the patients were created, as per creat remained uncorred, and a part cent died. In non-importance cases the pariod of bothing, ranged from t and seehalf it have trial as apportant, cases it errared four reasons.

Supportation and fartial formation are not coatraundexturns t the cast treatment. The position externion ith slight abduction—as all as good of the cases which cane for treatment early. Aids, loss which had been present from the beginning as elten corrected. The abortening mover or cutred. The functional capacity aids. J. treatment extraordinarity sood.

extraordinarily good.

I conclusion keck recommends conservains treatment in sanitarium at high aftitude.

Lant (E)

FRACTURES AND DISLOCATIONS

Therman, II B. The Treatment of Old, Unumited Fractures of Long Hones, with Special Reference t the Use of the Osteoperiostaal Graft J. Am. V. 41. 021 USE 369

The other cath attention to four factors of gre t importance in the technique of transplantation in annual fractures of the long bones. The length of time which should be allowed

t clapse bet cen the beating of compound infected fracture and transplantation 2 Transplants w thout fixation by screws, part, or suiture

3 The osteoperiosteal or wafer graft

3 Inc oscoperiories or water grant War surgeons demond it sail to repair compound infected fracture after a lapse of ax months. Later after several flare ups, operation was delayed for one year.

and the state of the state operation in the first state the bed was prepared for the transplant and the wound closed. It has accord state which usually was performed five days later the placing if the transplant was actempted. If infection set in the wound was opened which of our state of the state of t

All unnecessary traums must be olded, an encysted infection may be hierarch and that the results. The graft must be prepared with great care and should be made alightly broader than the prepared be so that it will fit mt in bed mustry.

The osteonemostral small as of erest value to stumulating osteogeness. It consists of the per tosteum with thm layer of underlying bone Often such graft ill take the place of bone trans plant, much traums being thus eliminated and the chances of infection lessened. The best site from which t obtain such graft is the anterolateral unner side of the upper third of the tibus. The small n outland ith bestoury and removed with chael. Its thickness is controlled by the blumity of the chusel. It is polied over and round the ends of transplant including its body so that it spreads over the lost bone area and covers the fixed ends of the transplant. This type of graft has been used. also hen the transplant bridging the gap between fractured ends of two bones has been broken from one of its attachments or has been pulled from a medallary bed

Delagrandre states that the progress of bone repair can be noted in the X ray examination after the planing of the graft. The new bone laid down

takes the form of the graft

A comparison of various methods of hone grafting show conclusively that the best results are obtained with the outcopenoated method

With regard to the care of hard ends of old un anited fractures Thomas states that often there is no necessity to denied them thoroughly. Fair almoment is substactory.

The postoperative care requires the immediate application of splint form Mirrogan, M D

Romer F Th Treatment of the Circle Fractured by Indirect Violence. Lenct, 9 5 cm

In the treatment of the clavacle fractured by indirect violence the uthor accurs the proper relationating of the fragments to one another as far aspossible by strapping the scapula in position and

leaving the arm free. It ben this is done, recovery is very rapid and pamless, the arm suffers no loss of function, and union takes place rapidly and in good

DOUGLED

The most common are of fracture is the middle thank I the how. The position assumed by the poents in the position assumed by the poents in the poents of the second point of the second po

The principle in alred in the method of treat ment described in the control of the outer fragment by my as of the intermediacy the expuls in order networked deforming the my on the incoder networked is right angle with the body. This brainst the outer fragment up it the level of the method of the control fragment in the level of the painting of days back both shoulders firmly so provide the carpida is possible the arm and theory Leys rated at right angle When reduction of the deforming has been effected in this matter, apposition of the fragments is secured by frame the capital in the position in high time has. Thus alone as follows.

men it now her. This is done as joint.
With the import aim still runed at a right angle
than layer of Gamers these or cotton ool is
pareed in the still. The end of long strip of ad
peace phaster is then freed it the top of the shoulder
part, just over the cromon, and brought up under
the still at the french sheet it is crossed over the top
tent and the still and the strip is to the shoulder post, to
part brought diagonally across the scripial is before
it angle. A second strip of paster about 156 in
in width, is brought with firm pressure from just
above the implie over the davide to below the angle
of the scapeda, much in the position of an ordinary
beace. A though and a fourth strip are applied in the
same a y-so that they slightly overlap each other
and cover the entire surface of the claytic. The

arm is then los ered gently

N support is required beyond that given by an ordinary shag which as worn for the first two days to prevent discomfort from the weight of the arm. The use of the arm is restricted to underhand movements but the patient seldom desires to do more The injured parts are managed daily by a skilled measure for at least a week. The movements of marrage can be effectively performed over the planter. As a rule the sing can be discarded at the end of bout ten days. The patient is then encouraged to make more general use of the arm. The strapping is remewed at the end of the first four days, and again from time to time as occasion demands By the end of a fortnight all movements are usually possible, but care is necessary to prevent under strain such as that of lifting and the pushing of heavy acights. The parts are kept supported by strapping for at least three weeks, even though no pern is experienced on movement

The ad antages I be galved from this method compared as the treatment personally employed lockule colour feerdom from the rails with skeeping it arms and he all fadily annealed substantial the first feer days I often very intense to I received any suffering that may be empered at the rist of fraction. In addition, there has associeties that the substantial to the rails as used as the rails as use make this adjoint and at the rails as use make this adjoint and at the rails as use make this adjoint and at the rails as use make this adjoint and at the rails as use make this adjoint and the rails as used to come the patient and the first himself normally of ring the estire period of conseived the arms on the information.

side for titing feeding and other simple mosment nethoot to observe The period of sixth his onsiderably beword. The erage period of histability ben other those are used is between and eight recks, but lat out on the year's lient to also at wife it enty day. When

sweatten to along it will rent test bour flat on his betk-repectall be reduction with difficult-because a the test full I made. I test took at the bores of the gradually drop into position and the decreased.

I wanter the bores with the decreased the gradually drop into position and the deformation will be decreased.

I wanter C : MD

httherstein. The Find Result of the Yon-Operative Treatment of Congenital I satism of the life (Ne Spectreafu der häutem fichandland der Lite 10 cottan segrant.). I erh mit die 1 Chr.

The Lorenz non-operal is reduction of congenital lucition of the lap has superior between plants of the lap has superior of the plants of the lap has broad to be a lap has broa

re oblished in 70 to 90 per cent of the cases of unflateral dislocation and 1 30 t 60 per cent of the cases of bilateral dislocation. Recurrence is dose cluefly to anteversion and frequently the latter must be corrected by ostrockies so the lower third of the fermo

The first dresding is applied in the anthrey position, the second (after bout t months) in the median position, and the list (for t months) more) I the ad forted position. Bit services (2)

Ester E., and Almes, A., Contential Ligation of the Tendons of the I teral Parametal Muscles (La ligation concludate des tral has des mercles pérodes tatera. En d'act p. 913 x 5

Uthough traumatic luxation of the lateral persneral tendors is not un sual, about fifty cases being know the thors has been blast faid in the lit rature out same cases of congruntal luxation is these tendors. The latter condition same be dites surreceptured. It is paudiess and in cause little are no disturbance. I function

The authors review the normal tomy of the region. Cangenital luxation is due t multiornation of the retroperoneal horn forces or insufficiency of the rendon.

In seven of the cases offerted by the authors the mailternation bilateral in the 1 others it was on the left sol only fix of the subjects were males in ere females, and the sex of the other and stater 1 wide in illuminations re found ho in other 1 rits of the bod

Operative measures are indicated only in case in his there is considerable disturbance of function. The type of operation all depend upon whether the deformity is due primarily to shallow bown trough over tendon sufficience.

A function

SURGERY OF THE BLOOD AND LYMPH VESSELS

BLOOD VESSELS

Odermatt, W. Pain Sensibility of Blood Veneda and V scular Reflexes (Die Schmerzenpfind ichten der Blatgefasse und die Gefarmrefere) Bate M. Chr. o. CCC.

By histologic findings and the results of expenments the fact is established that on and in the wells of the vessels there are nervous elements with motor and sensory function. It must be assumed that there are a tonomous centers on or in the walls of remels. The blood remels are supplied from the sympathetic nervous system. It is know that severe bein me poear in parts governed by the sympathetic perves. In his own cases operated mon for sorter the author has noted that in some yeards there is marked pain from the beature while in others there is none. This nain is located in the peri arterial timese rather than in any of the various coats of the artery itself I the em ligition does not came rain. From experiments on animals per formed by himself and by others, the utho m es at the following conclusions

Injections into arteris from which the blood cannot flow in the arteriolse and equilibries are never painful. The injection of certain sol tones into arteries in high the passage is open causes pain in conscious or lightly anesthetized mursh in from one and one half it is and ne half seconds after the beginning of the injection. This is the the beginning of the injection. This is the the boast of meeting in the carollibries where the

DAIR OCCUTS

The same injections re companied by change the blood pressure but if the sensation f pair as perentied by deep narross the change in the general blood pressure does not occur. The alteration the general blood pressure consists in sample decrease or sample increase possibly primare decrease in sample increase.

a secondary increase or ice erma

The nature of the change in the pressure seems it depend spon the sevent of the trintation. When intervenous injections are given experimental atoms the same reaction priestry of the preservoir sensit meas. The nate cost of the preservoir sensit meas. The nate cost of the preservoir sensit meas the nate cost of the preservoir sensit measurements and the nate of the preservoir sensit measurements and the nate of the preservoir sensitive that the preservoir sensitive t

ppears on intra arterial injection, even when the pen arterial please is damaged fact which co

statutes further proof that it armses, not in the arternes, but in the capillanes and that the capillanes are not offshoots of the peri arternal pierus. Send to mest to maternal training in the blood is an tribute to maternal training in the blood is an tribute to applications. On the other hand, the arternal results are the special functions of exacting it stretching of their will as with local to experient complainer, the green or pain.

II recent (Z)

Imitrap B Studies on the Anatomy of the Capillaries I The Contractil Liements f the Inscular Wall of the Blood Capillaries (Betracer our Instonue der Capillaria I Uebet entrart le Diemot in der Galesawand der Bhit pillarie B Bind f Lett 9 cm 4 6

\ imiran was able to demonstrat the markedly branching cells previously found by Rouget in the consilaries of living large of salamanders d from The protoplasmic processes of these surround the capillaries and produce a construction by their ou contraction. In the diluted capillary the nucleus ell is flat while in the constructed capillary t is oval or spherical a diprotrudes from the surf ce It th medium contraction Limitrup was able to demonstrat fibrillar structure the protonlasm The co tr ction als vs begins in the cell and pro eeds toward both sides. The sam conditions are seen in the ich and membrana metitans of the dult from the contractso of the former may be produced by stimulation f the ninth or tenth sympathetic grantion. Trans toom to the smooth muscle cell re found in the rterioles and venules

The suggestion is made that these protoplasm cells be called Rouget cells ——Dr. upr (Z)

Portmann, G and Dupony P Pharyngeal Americans of the Internal Carotid (Contribution \$1 \times tools des and remais pharynges de la carotide terne) inth med helps 9.3 hays 07

Ancursons of the internal carotid in its juxta pharyagest course t the level of the tunual are often diagnosed as tomullar bicesses or deno serroma

The case reported by the utbox was that of a diversel of man who had a expensel ctumor in the left phayrupged area back of the posterior pallar. Here was no pain and no difficulty a wallowing or islimit. The largna was normal. The superficial temporal policies on each side or ety nichronom and the control of the control

In such cases there may be symptoms of nerves pressure o one or all of the last four cramal nerves. The utbors discuss the pathology of the contents of the ancuramal sac. In a luminorm ancurism the blood shows no tendency to leave any clot deposits on the arterial walls. In seculorm ancursm lam inated clots may effect a cure.

Ancursm of the internal carotid lacks one of the principal symptoms of aneurom namely retards ition of the pairs on the flected side. Often an arterial blow is heard and felt. All of the other symptoms are those caused by compression of

neighboring structures

The came is that of all aneurome—scakness of the care is all The carring case is analised. The condition may follow an acret or chrosic infection tubercolosis, syphilis, good auto inforces infection tubercolosis, syphilis, good auto inforces infection tubercolosis, syphilis, good auto inforces infection, lead possessing, six-oblishes, etc. Traums may play part especially in old persons. Congenital successions are known.

Certain physical pecularities (avor the formation of assentime to the internal carroid () the large culber of the easel () the promisity of bose past before the circurate to the carroid casal, saked presents hard surface against which the artery constantly bests (3) the law degree of development of the musculo clastic media at the lared of the balteriation of the common carroid (4) the table course of the common carroid (4) the state course of the view law (3) the lateral and posterior feature in the common carroid (4) the state and posterior feature in the common carroid (4) the state and posterior feature in the common carroid (4) the state and posterior feature in the common carroid and the corrosi seminor than the carroid carroid and the corrosi seminor than the carroid and the corrosi seminor than the carroid and the carroid seminor than the carroid and the carroid seminor than the carroid and the carroid and the carroid seminor than the carroid and the c

flexion movements of the cervical some In some cases the onset of the condition is ery sudden, but usually it is slow and insidous and the pharyngeal tumor is discovered only by chance. The angunsmal tumor may be both cervical and pharyngest or pharyngest and patatase, but never cervacit alone. The cervaco-pharyngest type is the classic type. The cervacul swelling may appear m front of the ear on the lateral aspect of the nock, or below the lobule of the car. The skin covering t as normal, and the tumor shows pubation syn chronous with the pulse. During pressure on the common carotid these pulsations disappear. Pressure is not painful. The soft furthant tumor seems deeply minuted beneath the sternoclesdo maximal muscle. Expansile pulmition and a systolic thrill are usually present. The stethoscope reveals a soft systolic intermittent blow \ ray exume tion my demonstrate the assurement pulsation The patient's head is sometimes bent toward the shoulder of the affected ade while his face is turned toward the opposite side as in torticollis develop into cervical tamor the aneurom must first overcome th intermuscular cellular adapose tisens from around the lower portion of the internal caroud out and upward toward the skin surface It then has considerable olume

The answersem develops easily within each for ward toward the pharmac because it is bounded belind by the vertical column and interully by the syriced and in statehold minimizes. It therefore collarges toward the answerby positions are collarges toward the answerby positions of the collarge toward the area of the collarge toward the area of the collarge forms. The expensal polsation may be felt by placing one flager on the towal sale and only one flager on the towal sale and other on the next.

Dyparen and dypalaga may be present, and fund may be requirated into the scattal or account of interference with palate action. The lattice around now a sun the remarketine server may suffer from the presence of the tumor. Hyperson denotes paralyse of the sympathetic aeries, and midrauss, contains of the nerve Larynega becomes any dominate. Horsences, brightness, and disparen from paralyses of the very contains of the age. Compression of the internal counts are other age. Compression of the internal are increased by digital or and process and these are increased by digital type has been reported. The pure planyaged type like the cervice pharyaged type, the description of the paralyaged type like the cervice pharyaged type.

That need ancursum of the internal carotid must be differentiated from become of the pharyageal all, perstonalist becase, pharyageal time personalist becase, pharyageal time of the paints, vascular tumors, and ancursums of the verticals, the ascending pharyageal, and the verticals, the ascending pharyageal, and the

mienor palatura arteries

The ancuram seldom disappears spontaneously it usually tends to enlarge and compress servicing structures. Rupture causes sodden death. It may open externally or internally. Sometimes severa pain develops. The duration of the condition may be several.) caris.

The treatment is ligition of the internal or common carotid Ligition of the internal carotid presents many difficulties, especially if the talented low dow. I the bifurcation, and is as evers as that of the common carotid.

Measures to maintain low blood pressure and to provok clot formation in the sac may be used. Iobdes may be employed for their action on the casel wall Existed Series, M.D.

Cawadian, A. and Catneran, J. Thrombooks of the Mesentucic Artery. Lancet, 923, 638–949.

The putent presented himself for maintain of an a hardy of international classification of an years durations, recent dyspones, and paragraph up to the areas set the separation repose of such unternsity that physical effort as impossible of the present and the present a

Eight days after the extransation the patient or premised studies severe abdomined pair and counted blank black material. The abdomen became nigid and tender on pressure. A gas or level pursed per rectum. A diagnosis of nearthers thromboars as made. The patient deed three boars after his admission to the hospital.

At autopsy eight hours later a blackub discoloration of the lower segment of the ileum, the ceroms and the lower part of the secondary cubes as locaed. The success of the discussed segment of small intestine showed memorium gas bubbles. The intestine as emphysicantous and the mucosa corered with continuous layer of bacteria, thiel of which was a grum-positive bacilins. In the circular toy as term sciences of both concast y stream sciences of both concast y stream sciences of the decided market therein the stream series of the science and abdominal sorts a ere found in the stream series completely calified and completely obliterated by a letter enough the superior marketily narrowed in the stream series and the science and the superior marketily arrowed the superior marketile particular the superior marketile particular that have been described and obliterated above the origin of the stream superior superior superior color arrey To small meanter virus were filled at the blood and contained many gas bubbles. The berry was autemed and light from the superior s

In the crea meanine thrombous followed plan arterial syndrouse but as not preceded by syndrous of about 100 per solutions of the same of preceded by syndrous of about 100 per solutions of the many tested, the sustantonotic channels were not sufficient establish a collateral creations. We sholterest on the thickness of a retrograde undoes from the vertical per solutions of the meaning arterial processor of the security of the second varieties of the security of the second varieties of the second varieties

William I PREMETE M D

Buerger L. The Operative Treatment of Embolien of the Large Arteries A Report of Tw Cases. Surg Gysic & Old 9 1, xxxx, 463

The diagnosis of the presence and location of a cot in the upper extremity is not difficult. I cases in lack a clot occurs in the lower extremity the surgeon must be guided by the limitation of thouge in color and temperature and the presence or absence of pulsation in the anterior and posterior black the devalue node, and other each

The thor reports the case of patient suffering ith chrome endocarditis who expenenced sudden tramp in the right leg which then became blanched. cold, and sangrenous N pulsation from the femoral dosumard could be detected. Amputation was done. On the afterpoon of the same day the right upper brackial became suddenly the site of a clot Six bours later the artery was exposed under novocame and the clot felt in the years! I about the level of the origin of the superior profunds loagstudinal opening was made in the exect and the clot and an accretion clot were rem red the venel then being losed with fin all suture Pulsation in the radial and ulast arteries and color and warmth of the member returned at once. The ound healed by primary intention. Seven days later the patient developed an embolus of the shar artery on the left aide, but refused operation. Gangrene developed and is days later cerebral embolism and death occurred

A second case is similar except that the patency of the vessel could not be restored for some distance below the six of the thrombus. This is the case of a man, he developed an embolism of the right brachul artery three days after an operation for gangrations appendicula. The fressel was opened

and the clot removed. Pulsation returned to the brachial artery below the sit of the clot but was not present in the radial artery. This seemed to indicate that secondary clots had lodged in the perpheral resiels. The thumb became example and was later removed. Trophic disturbances over an area on the back of the forcarm and muscular nales developed. The brachial wound should evidence of induration and deep infection in alving the musculo-tural and ulnar nerves. A blood culture was positive for harmolytic streptococci. The patient recovered and left the hospital. Median and ulmar nerve become improved to complete recovery fol loaing electric stimulation and exercise. Seven months later the radial pulse had been re-estabhabed probably through collaterals

Operative removal of an embodus should be carried out early before a toruc element or bacteremia may vitate the result and before the original clot can grow by stagnation or fragments are broken off.

Rittrant I Proxite M D

BLOOD AND TRANSPUSION

Unger L. J. The Transfusion of Blood from Immunised Donors. Laryspiscope, 9 3, sxun, 45

The author discusses the value of blood transition in case of sepsis, and as a result of his observations concludes that transitions should consist of whole non citated blood from donors of the same group as the recipient who have been immuned by lung donors of a vacctic made from the culture of the sepic patient's blood. ""Casting with an initial done of billion, drult impressions are given and as much as 100 to 50 billion organization are given in seek. These donors develop demonstrable immune bodies. It requires nine or ten days for a donor to develop immune bodies.

Unger reports too transfusions performed in such jour cases of bacterisms. In forty-two cases the blood of an ordinary healthy person was used to blood of an ordinary healthy person was used from the patients recovered. In the second group of seven cases, the donors were vaccunated with the organism obtained from the patients ablood None of the patients recovered. In the third group, of fifteen cases, eight received blood from a donor ho had been immunized with the organism obtained from the blood of some other patient infrareces, each received with the blood of a donor who had been immunized with the organism obtained from the patient's blood five of these recovered.

The author states that sodium direct markedly dimmakes the complement in blood hindy high apportunit role in destroying bucters, the tracts from the alls of the red blood cells a substance which readers the plasma authorosphenostry that it reflects the plasma surface and that if destroys the openium in blood. He does not substance which readers the plasma content that the state of the basis for these statements

SCHOOL L KOOK M D

Stegensana, H.: Hermostasis Induced by Blood Transf sion (Finishipon darch Bhitransfanos) Arch f Him Chr. 9 L CLIN, 719

The author report experiences ith blood transfusion in Kinichner climic. The cause of the hemorrhage in five cases was the openior of peritomillar abeces re-fracture of the femor for faulty mon, gastro-enterestoms for sicer of the stomach, gastro-enterostoms for plert of the doodenum, and resection of the stomach for gastric careagons in one case each. It is cases a er compotented by hymochila 1 three cases of alere the historia ar was aboutaneous Adrenalia hermostatics, admosquien are used athout result only blood translusion arrested the hemorrhage Transferson is indicated a paranchym tous bleed and nd bleeding from small vessels. In hemorrhage from large ently the local surgeal methods of effecting bymostasis are puberted

Transitisson operates directly by adding to the blood the substances necessers for cound nonparticularly associationing substances, of acts indirectly through the irritation induced by the foreign blood which causes these substances to preter in the body of the pitent by act. Line tho

rell processes concerned in congulation. The field of such lases of blood translation in cludes all cases of himophila and hemorrhage datherin is which the saluturers sections; for congulation see Jacking to severe postoperate himography. Translations before operation is peoply Jackie measure to increase congulation is prophly Jackie measure to increase of know Seven-subsequent of only it because of know Seven-subsequent processes.

Stegemans recommends direct transferom the Obblecker appuratus. This method reals if them in amplicity retributing to accuracy of dougge T cause congulation, 200 cm are sufficient T increase the upply / blood, lugger amounts re necessary.

Sidney J. B. Transitision Through the Umbilical Vela | Hemorrhage of the Newborn Report of a Case. Am J. Dr. Child. 9-2, 233-250

Sulbary gives brief history of translation for historitagic discuss of the neshorm describes the routes which have been used, discusses the etiology, of the discuss and reports—case he treated by translation through the unabled vein. He m is t the following conditionants.

The umbibical vein may be pittent and combile for transfusion up to, and octoding the fourth

ds of ki

If patent, the umbilical cin is the most accessible vein up to the fourth da

7 The danger of the formation of clot in the uninhest year is very alight 4 Transfusion through the sames in uses of

intracranal hemorrhige in a mereise intracranal

5 Transfusion through the superior longitudinal sames is comparatin by simple for one ho is ex-

persenced, but the unableful routs is best for one to is inexperienced in the use of the same route

6 In Inia is anyoung as or y weeks, the mechan branks can is also y large enough to adout an 5 grupe secule and its use is generally preferable to that of the superior longitudual saises though it should be superior longitudual saises though it should be dispersed out E C Rommers. MI

Marchdam, W., and Shinkin, G. The Cholesterol Content of the Blood in America and Its Relation t. Spienic Function. Quart J. Med. 9 1 371, 91

The authors has followed the changes in the choisested content of the blood fire apheneous in three cases of harmolytic handles and one of plence seems and harmolytic handles and one of variation in the fraghity of the red corpoctes, etc. in these conductors. At the same time they he carried out an investigation on the foot cholestered to both pleaves and red corposedes in a seems of both pleaves and red corposedes in the seems of the field of the different types of meants camp it is case of polyculturation.

There dra the following conclusions:
The choise are of the blood plasma is dissipated in animal conditions, although the decrease on not be striking unders the red cell count it less than 50 per cent of the normal is answered in the conditions, and the striking of the conditions of

2 There is no poteworth diff rence in the blood cholesterol in cases of accordary and periscous memor nor do the lestocytes appear the correlated of the patient in the plasma cholesterol

3. Where remote led the options in case of lambal sectioning painting on spikens assume their matter as gradual but any considerable currence in the total observation content of the blood phream. But of the companelses areas always relatively across range. These in the case of the month is primarily across the cholesteroid alone of the plannar three months after the cholesteroid alone of the plannar three months after companed in the observation and top and top per cent before contributed.

A 'Although spheastom is followed by propressive improvement in the red cell count for increase at the hipards of the planning position to to be related 1 as change in the corposites themselves so far as our dit per their abnormal Impility in himself its justice persists three months after moved of the sphere although the activity and and

urbilinums diseage within tend 3 of operation 3. There is no evulence that an abnormally type comban tops of body-steed is enter in factor in the production of means and the decrease in the uncategorized fatt mends of the blood following spik nection in cases of aniemis recorded by King, with Constituted does not pear to be relief it file.

uncrease un cholesterol

6 The evidence potiting t ery considerable increuse in the cholesterol of the blood plasms after

solenectors in harmon the mandice seems conclusive, but the relationship of this by nercholesterolamus to the centure of splean function is mate undefined. Monette II Fam. M.D.

TYMEN VERSETS AND GLANDS

Renn D. The Sympt ms and Treatment of Transporte & heuteneaus Intrasporation of Liminh (/ Link of Therape der arbeitanen tramatischen I ambestra aust 1 Dester Junio 'm 'cı

T the circ clinical nature if subcutaneous t um tech mobertos, estudo Bono adde font cases. The condition mass through the t mentral min cation of blust force which uses the formation of pocket between the skin and f are Among the tithor' cases there is one that is employically significa i in that the extravasation was brought lout by massage. The elasticat of the la us of importance. The less it is, as for example in the era due to scars and orderes the shafter the trauma ser san t produc the coad tion

The far that only hands is collected in the planted by thrombotic closure of the blood exclusion Ly the triama. The non-flow g pozing hamph look forms the lymph cyst which in I carly recognizable only from the boormal mus libre of the la

If her tical Insufication (the cases int small cel m nel f ree lymph extra a tions t ord nor th therapeuts, procedure 5m % exat ove fter nuncture and compression hand ring h is re of medium size most be extremated I free es t in best treated by saide one the

followed by the application of loding to destroy them Puncture fails to effect a cure because of the absence of the ascertic hypersemi caused by the blood which is necessary if the walls are to eros Lors to (/) ton ther

MISCELLANEOUS

Under 1 and Heura, II Continuous Interveneus Inf al n (Leber nits moese Danenni uon) Three d Greek o 1 lts

Continuous intes, enous infrason as terrommended he Friedemann and Locuen was tried as a l t resort a eighty two cases, those of children and Lighteen of the intents lived. The mantity (the bound given in twenty four hours y ned from 1 t 11 liters. The infusion was usually onti ued for t or three days, but in especial ases we given for four or file days. The

technique was the ordinary one. After enesection ld t cannula was tird t the nin wen and the rm pla ed on a straight splint. The fluid was gi en t the rate of from 60 t 100 drops minut Special rm & spoarates a distensed a th since it could be afely left t the body t range these less drong minut t body temperatur

The mai indications r gray collaps exte u burns, d marked dehidr tion (typhoid d sentery chok.) When the hemogloby is low and in sets of rictionch or care it accession. with men d t the qualitity en en. U deured se coel ser colem h postatu poeumonia thrombon of the arm on The is t mentioned never ca sed an further complication

O

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE; POSTOPERATIVE COMPLICATIONS

Cremak, H. The Importance of Grippe in the Development of Porteparative Complications, Particularly Portoperative Series (Die Bedeuum der Grape fuer dus Testasektommes portoperati et Kompikationen, lanberooders postoperati et Kompikationen, lanberooders postoperati et kepten) Arch f H u Chir 9 p. 1211, 9 6

Orippe is surgically important as much in the development of postoperative complications its immediate surgical complications. The former are d e principally to the calcumpt of the organic defense against pathogram bacteria. Therefore during an epidemic of grippe nergical interference should be restricted to biolistely accessive oners tions, especially a cases of disease of the upper respiratory tract. It is of great importance also as on Haberer states, t unquire bether the natural has had a attack of grappe during the past four months Patients it's grippe should be wolated. and during a epidemic of grappe surgical patients should be can fully protected against every possibilits of mirculos RALPOPER (Z)

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND IMPECTIONS

Young, H. H. Whit. E. C. Hill, J. H. and Davis, D. M. A. Fuerther Discussion of Germickles and th. Freezitation of New Germickles—Meroxyl, S. 14. Green S. Ohio.

While the position of inercurochromes at all before contained from the general chains been extablished further search his been made for my certify extended to story the permit its me body carriers at hittle triateon of debeate inverse and positioning power thout triang. Mercury has some of these desirable features interested at the expense of others. It is free from stanging qualities and is more poserful as a genuiced that mercurachrome. However its tourner's subject that a greater percipital ag action on protein, and has no apparent power to percent these.

Meroxil should be regarded as a complement of mercurochrome rather than substitute for t

The thors give detailed description of the hemical structure ad ph scal properties of the drog and of the methods seed to demonstrat a penetrating po er its toracity and its citons were cheef, agrunt bacillus cols staph lococcus.

aureus, and the genoreness

Veroxyl has been used in the orological ards of
the Johns Hopkins Hospital and has been lived for
its genundal power and its non-staining and son
irrital geoperities.

In three cases an attempt was made t sterdure as infected kidney pelvis by irrigation with 1 one solution of meroxyl through a small tabe load in the pelvis at time of operation. Only one case was benefited, but as the presence of the foreign body man law been the determent f ctor the method should be tried tarther.

In series of cases of acut genoralizes it was found that merosyl is the most powerful genocecude minble, but tide other drawn is tracked at the series

cases, to reach Il the gonococcu

Merovy) has been used to urigate eatheters and urnany dramage tubes, for instillations before and after naturementation, and for inection through ureteral catheters fort before them removal. It has seemed 1 prevent infection in these cases, pur thentarly when used before and after the passage of sounds.

In ounds in which infection is expectally feared in cases of hypogenetics in which there were small, neverend areas or draine, along grifts one used or separation of the class edges occurred means of his been used as a well dressing. Daking solution is preferred as long as necrotic travers are present as mercryl does not dessel slongth nor

ct as decolorant

the opposition has been used to irrigate wherever, beginning the first interest to the control of the control o

In the treatment of ordinary chronic cystets, its mercury marked improvement was noted

I the treatment of postoperative cystist, the urine, if not sterilized, as often improved and mide macroscopically clear. In cases not rusting satisfactorily deep afections of the prostate seminal vendes or hidney —er found, or the infecture organisms were harbored by the erticals.

Reports from the Department of Ondaryngoloss of the Johns Hopkins Hopkins Lied to the conclusion that the drags so walso treating infections of the crosses of throat probably also have yet and is demanty. It has greater permissed potency than increased-known and consequently, or he soot effective here the sort and to be reached by spice of the control of the contr

The details of technique and the selection of the solution strength for merony) in the treatment of ounds and suffamed miscons surfaces has not been

folly established. The frequency of irrigation necessary for the best results has not been fully worked out, nor has it been definitely determined in which cases incruzy is to be preferred t. Dakin solution or other standard antespica. However the results have been sufficiently definited in promise

of wider usefulness for this antiseptic

Aschoff L., and Reinhold, G. Changes in the Notor Canglion Cells in Wornd Teranus (Deversedinges der motorischen Gaustinsellen beits Wordstafframpf) | proofent d. Kriegt-Kriegtstafframpf) | ors. m. 5

In eleven cases of wound tetanin the brain-atem and manal cord were a stematically examined and sections were made of th elemented cervical. thorage, and lumber cord Changes in the nuclei and terrord substances f the motor cells were demonstrated by staining with cress I violet and pyronin. There was no characteristic nacture of te taxes and no other nathologic change. I some instances the structures were entirely normal others, there wer marked changes without sharp demarration but postmortem decomposition was remorable for these. Proving this, were the observations on bemoly as made in the casels of the beam and cord which were due to the solution of hierogloben in the smooth of the ganglion cell nuclei KREUMER (7)

AW JUST HEREA

Dale, II H Hadfield C F and king, H The Amenthetic Action of Pure Ether Lence 9 3 cc 444

Dule Hadfield, and King revers the hierature of there as an anesthete more is early see in difill a generally beheved that the active pranciple in the undoction of anesthesia in die right jether prana sense of experiments on animals and an investigation in chincil cases the thore sood de that the other of choice for anesthetic perposes in other which in free from all by products and contaminations.

This conclusion is directly opposite that of Banker wills d Hamor reported in 9 is and that of Cotton reported in 9 r. Daton claims that by experiment to determined that pure ether becomes fit for anothera only after the addition of ethylene gas per cut and carbon domaids 5 per cent. The use of thylene gas as an insettletic agent is very old, hereaf been suggested by Nunodily of Leeds in this continuation of the cotton process ether and states that while leed to the process of the continuation of the cotton process ether and states that while leed to the continuation of the conti

Wallia and Hewer in paper published in 1932 claimed that pure elect freshly prepared will not produce surpcial anesthema, even when large quantities are used, but that after certain lettocos are added it it, the becomes very splended anesthetic deroid of many of the objectionable features of orthours nameabletic ether.

The authors describe the preparation of the pure samples of either in detail. Some of them were made from eithy alcohol, some from ordinary either and the same eithersell. The chincal results observed in the use of these samples were practically the same in both patients and animals. The manner in which the pure samples were obtained differs shartly from the processes used by others.

augmey from the processes used by others. Several packages of eshancial purrished on the open market were found to contain 95 5 per cent either a per cent borly a keeded, o 5 per cent alcohol, and an lifehyde According to the numbers and markings on the bottles, the various sumplies probably came from different lots. N ketones were found in any of these samples Bry Morany M.D.

Huck, J G., and Payton S. M. A Study of Iso-Agglutinins Before and After Ether Ansostheria. J Am V Arr. 9 3, lxxx, 670

According to Levine and Sepill, prolonged ether inston may cause a temporary change in the inegitalitative phenomena. As the authors had never observed unloward results from transfusions following ether assesthesis when the bloods were matched before the operation, it does are made by them to determine whether there was a change in the understanding the same of patients are the contract of the c

There is no change in the blood groups after

ether anesthesia

N change of uso aggintinative phenomena was produced by shaking with other for one hour or by four hours contact at ay degrees C.

3 Transfusions can be performed safely within twenty-four hours after prolonged either ameathesia provided a smithle donor was found previous to the beginning of suresthesia. A Severe reactions from transfusions after ether

anasthesia are due apparently to some other cause than a change in no agglutinative phenomena E. C. Rommana, M.D.

Frei, W., and Grand, H. The Theory of Natroele (Betting rur Theorie der Narkone) Little f d. ger exper Hol. 9 3 xrd, 350

Like Wastersieln, the subbors define narrows as condition in which the property of irring moletane to reach a decreased by a chemical agent. Within certain bounds, the intensity a freedly when the concentration of the period waster and the content of the processes. All cells can be narrowised, but of the processes the narrowised but of the whole when the narrowise agent and its effect we know nothing.

Is all methods of inducing narrows the narrows must become mixed with the body fluids. Part of it must therefore be diffused in the cells, especially those of the nervous system, the quantity depending upon the solution, absorption, and chemical affin-

The vital processes of the cell may be faffuenced physically physics chemically or primarily chemically Even marked disturbances in cell me-

tabolism are possible without chemical changes

The authors studied number of little know and not y t used parcotics to find the relation bet een their physical or physico chemical properties and their narcotic effect. These substances were derivatives of sahes he and bethetune ands. Determinations of the sol bibty of the subcybe and derivat was resulted in a grouping somewhat different that that to be aperted from Overton determinations of its solu bulity in olive oil and we ter. An isopropyl rest decreased the water solubility more than two ethyl groups. The ethal groups decreased the water solubility more than the allyl groups, and re-amyl more that suppropy i

Il th regard t surface tension the speriments affirmed the already knos (et that the ratroduc tion of an alkyl group rat the sequence methyl, ethyl, monropyl decreases the surface tenson and this effect is in de counderably greater by the all 31 groups. If narcotic power depends on surface ten mon then substances which are of narcotic in themarives but increase or decrease surface tension must be able t unformer narrous positively or negatively

Reservings the influence of the chemical structure on diffusion, the experiments demonstrated again that the alkyla, which often cause a similar change in the properties of compound, occasionally charge a property positively or negatively depending upon the ocleus t hich they re bound

A comparison of difficulability and sol bility and surface tension sho ed that the subcybe acad series diffused through the board portion of the membrane

and that is the barbitum; add there as a namely hen bet een diffumbility surface activity and after ** Inbulity

The relative parcotic power as studied in more our animal experiments. In the subcylic acid series the morropyl combination was strongest but all

ere surpassed by the allyl combinations The power of the salies he ad barbutune and combinations was also measured for beamning parcoses and for paretic and lethal desea. In the case of the sulcybe and derivatives the relation of the parcotic effect to the chemical structure and the chemico physical propentas was found t be compheated sorface activity and physiological effi ciency were parallel or changed one another. Witer solubility and diffusibility were found t correspond t the narcotic effect e good ater solubility poor diff ubility, and good narcotic properties Inth regard to the barbitume and series the conchance was dra that every mercase in deliveron ad surface ctivity with a decrease of the ster solubility increased the narrows

Thus in different narcotics different factors is finence the methanism of the narcous At any rate. physical processes influence the quantity of time supplied the cells. The true cell changes, however are not known. Perhaps the mechanism of narcous is no complicated that one substance or group of substances ets through lipeed changes and another

through protein combinations

Possibly certain disturbances of ferment action are the hase of narcous, different ferments being in libited by different narrotics. The asphyration theory as an rachus explanation cannot be main temed STREET, CO.

PHYSICO-CHEMICAL METHODS IN SURGERY

POPHTORNOLOGY

Scott, S. G. A.M. thod for the Opeque Meal Examination of the Stomach. Free Rev. Sec. Med. Lond. 0 1 Nr. Sect. Flectro-Therap. 35

After trying out — mber of methods for the examination. If the stoeach by means of opaque rotal and the rotenige may the uthor has come to the concisions that the method of choice is system tured roentgenoscopic examination as this sufferent not only the grower leavons but too very small gustine and doodenal uters and is ruped, cursite, and relative by mergenave 10 over 64 per cent of the cases. Inch have passed through his depriment is thus the last littree even if has led it correct disposas high is a confirmed by operation of utippy. The details of his technique are as

A vegetable purptive preferably castor od in diministered thirty are of tort again bons before examination and the potient then put on light due but not carved. The list meal, which consists of flinds, should not be taken less than an hour before the ximination. A barquin cream of variable thereby the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the proting of the properties of the proting of the proting of the properties of the proting of the

milin is given. The progress of a small port on (3 to 4 or) is observed as a purses down the enough a gus, the patient being in the appriph left oblique position. Its entry int the storn ch is noted and support and visimatic examination [the entre

If I the atomach and doodcomm is made as the the and of cared I polyation and turning I the principal to bong the different parts into view. More of the mean is given of documble. In a few cases in send I mean nation in the boramontal position is naide. This is the market bor as a records or as demonstration from the corporation. Repeated examinations are rarely in the careful participation to the control participation of the control participation of the meal in usually observed it the first examination. Wall times the principal operator are properly protected and the examination is conducted in predictionally a possible turnous flucture of its predictionally appossible turnous flucture of its predictionally appossible turnous flucture of its predictionally appossible turnous flucture of the productional possible turnous flucture of the production of the productio

Duane, W. Measurement of Donate by Means of Ionization Chembers 1st J. Resigned 9 3, 2, 500

The fact that different rocalgen ray pla is prodict consigner ray of different intensities and effects lengths even though they may be reasoned. The same oblige as estimated by pither ray and it the same current through the tube undeastes that something connected in the rocalgen ray bears used must be used for the accurate estimation of dough Without doubt, nonrational chambers provide the most rehable nethods of

measurement t the present time formation cham bers to by no means perfect, however and great care must be exercised in employing them

I this struck the subtor describes the pinciples involved in louisition chambers and enumerates various errors which re dependent upon their construct on. In order to test the suitability I a standard somation chamber it is necessary to make sure first that the sometion current is atturated, and, second, that it includes practically all of the secondary radiation come g from the molecules of east truck by the prunary beam.

The large statements of the control of the large statements of the treaty doing a transition of the control of

The estimates of the secondary raduation from different patients in oil from measurements taken during the treatments have been quit via rable. The eccondary radiation appears it depend not only upon the size of the portal of entry but also good the size of the patient and the shape content et of the portion of the body radiated. In estimating cytheria does all of these factors must be mading cytheria does all of these factors must be pearly to be about the size of the patient is been present.

A great many unportant in estigations have been carried on in connection with the question at the three the biological effect of the roosition may appropriate and to incustion currents when my afterest are lengths to need The term biological dones used in particular cases biological dones to definite quantities. Before the term hospical dones are definite quantities. Before the term hospical dones are definite quantities. Before the term hospical dones are definite quantities. So were the substitution of the superiorities and the proportional to each other some compared of different biological effects are proportional to each other when roomitipen mys of different is lengths produce the effects.

IDOLLE HARTE M D

Kemp, C. The Effect of the Rosentgen Rays on Subscute Inflammations (Emges actor de Nu's ag en Rosentgesstraken | rubakute Ent suonduspen) Desinie Zische f Chr. 9, 1, circus, 27

Seace 1916, in the Memorpal Hospital in Worms, severe supportations not affected by the arnal clinical methods he e bern treated with cry light does of recention rays. In some cases the rating acts surprisingly well while in others it falls without apparent reason. The author report several is or

by a theorem case of two result repairment and two better two of pundo to outside hich errors be served results of outside hich errors benefited. On the hole bowever the results my benefited. On the hole bowever the results my targeted as at stactory. In terrors two in the stills the results have been good and there have been to reduce the Uter of the leg. high had been treed thout result for some time by the assail for some time by the season that the still the

obtained also in practimosal) two cases are cited. The does used for all types of influmn ison, even parumosal re rimal. In cases of pers in the absonct, furnaculoses, sol presented is unpit large does for 1 o or three rangets. In the author opinion that obsect and be decreased. He emphasises that in such cases the raying of a noisy large field is quite sufferent. The ray type one field in the front and one in the brick practicular is considered and one in the brick practicular is considered and one in the brick practicular in the considered and one in the brick practicular in the considered and one in the brick practicular in the considered and one in the brick practicular in the considered and one in the brick practicular in the considered and one of the brick practicular in the considered and one of the brick practicular in the considered and the consid

Lange 5 The New High-Voltage V Ray Therapy

The new concentral therapy in a further development of the accepted constituent are unchanged needed upon the Berkalshibed and well known have of times absorption and fifth time. The high set possible voit yet or used to produce a ray of short wave length and great penetrating power and dease filter (of copper) a social cut on a large percent pet of the wather and less penetrating in a factor of the control of the control

"The ratio (or percentage) of the number of ray reaching the deeper tissues compared the same tendent of ray falling upon the same it strength the depth dose. I be certar this percentage must be further modified by the deeperson quotient inseed upon the physical L in the the intensity of light varies swerredy with the square of the distance I may be further modified. By the primary beam becomes the control of the primary beam being the upon the primary beam being they upon the distance I may be further the primary beam being their uncreased. The determination of the relation between the same per of ray, thing spoot the same and the unber of the primary beam the same per of ray. (thing spoot the same and the unber

the new rechange.

The measurement of the amount of radio set vity at the surface and it various depth is prime requisite for successful radiotherapy. The may be accomplished by the set of tentian for the surface product of the product pr

reaching the deeper tremes is an essential part of

The requirements for successful roentges therapy are a thorough to deritating of the fundamentals of radiology and the development of an individual technique embodying a proper combination and latance of voltage filtration, and time

The large-voltage technique is especially adapted to deep useer. Superficial malignancy and benign condutions (both superficial and deep) frequently yield more quickly to the older technique uniar learn.

oltares and less filtration.

T illustrate the chalcal achievements of the sear technique using copyer filtration and pracognel emposers the number reports briefly certain caves for which very satisfactory and is some unit serie almost surrections, results or evolution. I number of inoperatible breast cancers were at rested ser choically curred. In samp cases nodular recorning silter breast ampostation his disappeared towards after the present of the p

A symptomatic cure was obtained in several cases of automa of a pairently makenant type, three cases of rail gnancy of the ingunal glands, and several cases of artignancy elsewhere—hile in five cases of bidominal makenancy elsewhere—hile in five cases of bidominal makenancy the results—ere try graft lying.

A symptomatic cure was obtained in several cases of artifactory of the five cases of bidominal makenancy in the first lying.

A symptomatic cure was obtained in several cases.

PADDITM

Reth. S. C. and Morten J. J. The Effect of Radium and X-Rays on Frayme Action. In J. Received. 0.1, 427

Because of the conflicting evidence relative to the flect of radiation on entyme action, the wither mode an trenge to obtain additional information on the subject. Only the immediate effects were observed. The study of the late effects, though describle is complicated by the possibility of in-

fection of the solutions.

The electron pagalobility and Mett methods extend Solutions of prepara with hydrochloric sed exposed to reduce and the cortigor tay for article periods aboved so differences as peptic poser from control solutions. In human partier [see assistive exposed t roratges arreductions the findings were practically the same such eight anatoms as exposed fell this the hints of experimental error noted fell.

MISCHLARROUS

Picard, II Diathermy in Sorpery (Druherterbehandlung der Chararge) Deutsche mid Fränzie 3 abs 1

The author calls attention to the numerous indications for discrete in surprise conducts. These include the treatment of milipant tomors and the removal of kernsasponates, telaspectizes, and sax. During the war this method was sacress fully pyled to the treatment of fractures, jost effencies, tradou suprise, and miyalay Kwest.

Levitsky V: A Preliminary Report on My Treat ment of Cancer (Vorlandige Mittellung neber ment (Artistelanding) Seek 4rck f d get Med 19 3, ERY 4

The author bases the treatment of malignant tumors with ammotic fluid on the following facts There is an analogy between embryonic cells and

those of malignant tumors. The differentiation bet cen embryome cells : constant and alw ys the same Detarbances during embeyome life never cause abnormal proliferation of the embry once cells nd presuant women are seldom attacked by mal g nest temors

These fact the thor attributes t the protects a power of the ammotic find. He assumes that the ammotic fluid contains ferments and hormones 1th

necific action.

The 1 jection of earbobe ammotic fluid int dogs canved neither general nor local reaction except leuencytous and diurene. It is till too early t draw conclusions regarding its effect in the climical cases reported -one case of carcinoma of the carcum cases of carrinoma of the breast. It is remarkable however that ne of the t of carrinoma of the breast the cancer was reduced t half t onemal size after eight weeks of treat me t lik the injection of 94 c cm of ammotic find int. the tumor and the carcinomatous lymph glands. An increase of temperature lasuitude and broducke re-poted d neg the treatment and after the parection of large amount of the fluid

since only persons flected up cancer react t the section the assumption is restified that amount our fluid has perific effect on carrinoma. The brutaneous injection re gri every second or third da and the mounts of the find are necessed from 1 t 7 m LOUIS (7)

SURGICAL PATHOLOGY AND DIAGNOSIS

Churchman, J. W. The Mechanism of Bacteriot la J f per Med 1 13378 (41

for them solet, bubit the same time of select t t in tram position and Gram per tin orea un be ber in died t the media on which the bacteria re pla ted unit med-estriase lucterio I we set the organism are studed with it before they are playted on plains go a time or bacterio tase I both in tances the f ram poutnes are hit ted not the Cram erg tives re unaffected I (m pouts pore bearing crobes ad the more ommen fram reat betena endfachsta triated inhor int over and the finder hild one type of selection act in when they are Hed the media ad the opposit type when ther madfeldered t th factors I the for or the Gram position poor bearers re in bit ted and the Cramber tives he ams ected the latter the (m prentives reinhibited lit im preit pote be remate gafferted

White the tenest is at eccessarily medit wed t select penetral it I ed organ

isms may grow and dyes which do not stain well may inhibit reproduction

There is evidence that the phenomena of bacteriostasts may be due to changes effected by the dye at the surface of the micro-organisms

SANCER KARN M D

Serfarth, C. Trephination of the Sternum Simple Method of Removing Bone Marrow for Diagnosis During Life (Die hteraum trepanation, ciae cinfache Methode zur diagnostischen Lutriabnie on Anochenmark bei Lebenden) Deutsche med Bringer et man 180

In diseases of the harmatopoletic system-latent malaria and kala arar-punct re of the spleen or liver has been done to establish the diagnosis. How ever as rupture or hemorrhage of the spleen sometunes followed diagnostic puncture resort t other

methods became peressire

Dunner his practice at malaria bospatal from 19 6 t 1918 Seyfarth found in autopsies on the bodies of persons who died from malaria that the hest material for study was obtained from the abort flat bones. As proof of this he mentions the fact that in dults the marrow of the long hours has changed at f t marros while the flat bones, particularly the vertebrae ribs d termin, con tain bring cellula marros. Il therefore removed it from the stermum and ribs. In the materi I so obtained he found the disease-causing bacteria Some of them were free while others were contained m the reticul endothelia, capillars endothelia, ad other cells of the bone marrow

Under local angethesis a longitudinal incision can long was made over the sternum t the level of the third and fourth ribs, a small trephine was then used and the marrow was removed with a sharp platinum poon. The wound as closed with skin clamps and an adhesi plaster dressing

Trephiantion of the ribs to obtain maternal for examination should be done only ex epitonall as it interferes with the recumbent position. When it is done the area hosen is in the scapular or posterror rillars line of the seventh or eighth rib

Pursz (Z)

MEDICAL JURISPRUDENCE

Care Required of Hospital in the Treatment of the lye Derick is Parliand En Ear New and Threst Hespital and Par P p 144

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conered judgment for \$ 1,000 From the Judgment the lospital took an prest Beging several errors The record how that the defendant hospital by its nurse poled t the plaintiff one a drug called esertine scattered of the drug known a attorage which w a prescribed by the physician. There was entert test mon) t the effect that evenise when apriedt then i himlessdrugiftheen i

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Mclear M A., and Hattart, B W. Transmette Some Experimental Work on Crossed Circulation. Surg Grace & Obst 10 3 Nexel, 541

The experimental work reported in this article was based on the theory that toxic substances taken up by the circulation from a traumatised area might be instrumental in the production of shock. This has been one of the theories which has had many adherents d ring the past few years. In crossing the circul tion of two animals the milions used a technique different from that usually employed. Cats were used for the experimental work

A attempt was made t cross the entire cir culation Follow or transmatization of the lower limbs, an exestornous was made between the northand one ca a above the balancetons. After the assistanced had been effected the transmitted extremities ere amputated. The anastomoses ere made by means of parafined glass cannote. A mercury manometer was inserted in the carotid arters and the blood pressure recorded denor the

entire experiment

The animal was considered to be in shock when the systolic pressure as permitently below to man, lig The character and rate of the pulse and resparation the olor of the mucous membranes, and the general condition of the animal were noted Manipulation of the traumatured legals and even gentle massage lowered the blood pressure. Severe tracted was all aye followed by residen lewering of the blood pressure. In a few cases there were no eridences of shock the blood pressure remaining well above the shock level after an hour and balf

Seventeen complete experiments were made. Of twel a animals in which the muscles of the thirth were completely transatured, ause developed the typical pacture of shock within therty minutes. In three cases there were no evidences of shock. Here aximals were used as controls, the same crossed circulation being made but the imputated himbs

not being transmitured

The authors conclude that these experiments justify the openion that some substance capable of producing shock was taken up from the traumatized area by the curtulation HAROLE M CARP M D

Rebertson, B., and Bayd, G. The Toxornia of Severe Superficial Burns to Children Im J Des Cheld . 1 xxv 65

I cases of superficial burns the problems en countered are primary shock and toxernia If the primary shock is so severe that death may result than few hours of the many treatment directed toward its relief is apt to be deappointing In many cases primary shock is mild or shocat

Following period of general good condition lasting from t ent) four to forty eight bours, the temperature may rue and torregus develop the patient then becomes drowny the pulse more rapid. the curculation depressed I cases in which recovery results the temperature and tements subside about the fifth day and the treatment becomes local

In the more severe cases the temperature may rese t 106 degrees F and the terrents may be increased omiting may be persistent the pulse soft, the color dusky or land, and muscular twitchings and convulsions may develop. In one of the convaluous death may occur. The seventy depends upon the area, depth, and location of the hern and the age of the patient

I seven cases reviewed the arms contained intle albusion, the horococytes were increased, and the nonprotein nitrogen aned from 4 9 to 99 It as probble that the increase is non protein aitrogen is doe to increased tissue destruction rather than to de fective kidney climination

T relieve the tomernia local treatment such as the removal of large areas of tuesse was found mepractical as the areas savolted were too large of involved the face or the patient was admitted in tonic condition. The effect of large doses of sodium bicarbonate in combating audode aremed t be f vorable

To remove the toxin in the blood the operation of extenguination transfessor was devised, the object being to stherew a much larger amount of bleed than could be done by venesection and to replace it with firsh adult blood. The amount of blood withdrawn ranged from soo cm is an infant to rooc can be thild of a years

The results were considered excouraging. Of ten patients with convulsions treated by exanguantiontransferion seven recovered hereas previously no patient had recovered after convulsion had been

precipitated by burn torsenia. Experiments showed that correlating toxic material is produced in increasing amounts for from twenty-four to thirty as hours as result of the burning of hving tuenes. Chemically the tuent cornects of premary and accordary proteons. It is made up of secrotoxic and neurotoxic proteins, the former being thermostabile and diffusable and the latter thermolabele and colloidal

N evidence of antibody production was frend although this was reported by Katzeroff who based his conclusions on the beneficial effects of con valencent secum from burned patients in fourteen A R REVAL MD

causes of toruc shock

BIBLIOGRAPHY of CURRENT LITERATURE

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Supplementary to

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LDITOR'S COMMENT

TAIF continued interest in the question of thyrold disease is reflected in an important group of abstracts in this month a impe Marine a paper on the prevention of gotter (n. 121) Grier a maper on the X ray and radium treatment of goiter (p. 326) and the drecasion following these papers (p. 326) form part of a sumposium on guter presented at a recent meeting of the Pennsylvania State Medical Association. The report of Mayo and Boothby on the mortality rate following operations on the thyroid gland (p 318) and Porter a analysis of pinetren cases of mal mant disease of the thyrold and sou cases of the rold toxemia from his service at the Massa chusetts General Hospital (p. 328) ladicate the result of surnical treatment of thyroid disease in two welcly separated surgical centers. Edling (p. 110) reports the results of X-ray treatment of twenty fi e patient with Basedon a disease, and heyel and llyman (p. 320) present an interesting discussion of disturbances of the in objectary nervous system and their relation to thiroid toxxola

The protean question of malignant disease cisims an important share of the month's abtracts. The treatment of peoplesms of the bludder is reviewed externs ely in a comprehensa e discussion by kield of the London Hospital (n 175) on the base of a personal experience of 161 cases Neill (p 377) discusses the results obtained in 142 cases of currinoma of the bladder treated during the period from 910 to 1922 at the Howard Kelly Hospital in Bultimore Papin and Verline discuss the technique of the treat ment of carcinoma of the prostat with rad m (p 380) and the autopsy findings in four such cases. They call attention t th unitative effect of radium on the large bowel. Kolischer and Katz (p. 402) describe their method of combining surposi diathermy and rad um in the treatment of malignant disease of the bladder prostate, and uterus Wood in a ery interesting priper (p. 404) presents his ten on the most effects. treatment of various types of neoplasms. H suggests that the limitations of radium and the 1 ray as

therapeutic measures are much more definite than has been indicated by advocates of radiation therein in recent years. Turner reviews the result obtained by the use of radium at the Edin burgh Royal Infirmary (p 400), and Berger (n x68) reports the end results of \ ray treat ment of cancer in the cases treated from 1013 to 1016 at the Gynecological Clinic at Freiburg The small proportion of successful five-year rewilts in state of the fact that the a crase interval between the appearance of the disease and the beginning of treatment approximated eight months in all three types of mahenancy reported -cancer of the breast, cancer of the stempe fundua, and cancer of the utenne certification cates that the fight against mahemant disease is still for from won Pilger (p. 103) gn es a careful description of the technique used in deep X-car therapy at the Erlangen choic.

The studies of Miann and Magath on the physiology of the liver one of which is reported in this months a time (p. 354) and Kahn's discussion of splenic function (p. 350) indicate the increasing tend of surgery toward the base study of physiology—of normal and persented interction.

Three papers on chrone outs media, by Borne (p. 314) Deche (p. 314) John Momen von Coldita (p. 316) form an interesting symposium on this subject. The question of awards and as receiving constant! increasing attention in receiving constant! increasing attention in connection with this subject. Parker reports two cases of visual changes according to smooth

A number of other subjects discussed in this month a sew deeper particular attention. The management of orthopode cases, by Constantine and Moffat (n. 193) actue retroccal appeadants, by Jackson (p. 190) traumate reporter discussed the intention by Lockson (p. 143) the suspell treatment of cancer of the mucous membranes of the mouth, by Hedrich from Kuetturer's chin. (n. 19) are subjects of ery definite and special interest to the surgeon.

INTERNATIONAL ABSTRACT OF SURGERY

OCTOBER, 1923

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Ferry G. The Distincess and Treatment of Fractures of the Base of the Ekull. Thirty-One Cases (Costnbuton à l'étude du diagnostic et du traitément des fractures de le base du crâne d après 1 observations). Rev d'eller Par 9 3 du 7

There is considerable di eristy of opinion in regard to the treatment of fractures of the base of the skull. The majority of surgeons, however still favor Qoéma's method of humbar puncture in series. This has been used a the Sencert surgical climat Strassburg for the past three years.

The article is based on they one cases treated by the Cyut unchind supplemented by the treatment of shock, the application of set to the head, antisepses of the fixed ceratics, and measures it keep the bowds often Treplanation was shost embedded in the bowds often Treplanation was shost embedded in the bowds of the total the company of the company o

I the thirty one cases there were fifteen deaths, mortality of 48 38 per cent. Some of the fatal sea ere so gra that any treatment as hope cases ere so gra less I eight of the cases in which death resulted early the fluid dra by lumbar puncture was almost pure blood but the pressure as no greater than normal Accordingly there as not much localized compression and the efficiety of Coaling operation in such cases appears doubtful. If the nine hopeless cases are excluded, the mortality falls t. 7.7 per cent. In the sixteen cases in which recovery resulted the number of punctures varied from the t mine The fluid dra as bloody in cases blood stamed in seven, blood traved in d clear in on It as under medium pressure in seven cases under high pressure a eight and under lat high pressure in one

If the lumber find is freely blood and under mechan or slight pressure on severe concussion and cerebral contisson is t be feared rather than

compression. The prognous is very unfavorable neither procedure not trephination gives much hope. If the fitted is less bloody or only blood tinged and under medium pressure or pressure slightly greater than normal treatment by puncture or trephination offers a more it wortable prognous.

The symptoms of meninged infection greatly indigently the prognosis and even the therapeutic modifications. In a of the thirty one cases these present it periods ranging from the fourth it be fourteenth day, but even in cases of post traumats meninged reactions fumbar punctures a fitte great est curature also.

Ferry concludes from his study that humber puncture in series is most beneficial in fractures of the base of the skull. Subtemporal irrephination may be done t upplement twhen the occupit If ramen is blocked a. d. hen there is localized cerebral compression.

W. A. Barv.

EYE

Minn, I. G. Some Congenital Anomalies of the Eye and Their Confinent with Acquired Conditions. Leach 9 J City 743

Lesser bnormal less of the cy may nonctimes ammiant prishologic states. The other cells states too it the annularity best cen the early stages of an optic neutral and parallelements and the parado accurate often associated with high hypermetropes and high degrees of astignations. The symptom associated with high degrees of hypermetropes may be considered with the degree of hypermetropes may be considered in the form of the certain notations continuous distributions of the control of the certain notations continuous and the best of the control the certain post seen at the bottom of the certain post seen out the best seen and the fetch show the characteristic contraction.

The conditions which may be confused in beginning phoma retime are the strong degrees of per insteat it, alond arters. The appearance of the anterior chamber in these cases in alter of assistance In the former condition it is soor, be to be mit mored, while in the latter it is normal or deeper than normal. In retail is and chorochits one must differ entities between patches of credit is beautoringers, areas of choroidal tropby the presence of orange nerse fibers either at the edges of the date of water than the contract of the contract of the contract is contract of the larger vewers, the presence of the posterior vortex were which may simulate a large hemorrhage and congenital colobona of the choroid.

The congenital anomalies of the parts of the opterior to the irresus are as rice more obvious. The three lights of an old iritis which may lead to conline three lights of an old iritis which may lead to contrain a result of the public light of the iritis of organized credities and side-asson 1 the interior capable of the lens, and the alternation in color which there is irreplantly of the propil coloborate of the irreplantly of the propil coloborate and control and the irreplantly of the propil coloborate below the propil control and control and the irreplant of the irreplantly of the propil coloborate the irreplant of th

True adhesions of the first to the anterior capacia of the kem any coreanceally beloadd in polycoria and correctors. More commonly they are simulated by tap of persistent pupillary semiration. As a rule these are attached 1 the anterior surface of the unattice w y from the margua. In the testers unit or pethia springs from the edge of the pept in congenital heterochronic units the beneve of signs of inflammatics and the surface of the units of the testers of the persistent of the persistent of the congenital equations of the corona must be differentiated from the results of insuran

Congenital proces may be undateral or bilateral In shight cases the lide may show movements assocasted with mastication and deglotition. In all cases of congenital ptosis the purallary reaction and accommodation are normal. When the history is vagoe the possibility of a hartic syndrome, myasthenia gra is, sacinerat bulbar pally and cerebral temor or abaces must be considered. In cases of squist, conemital defects of the muscles or serves must be ruled out. It should be remembered that measurably of the purch may accompany marked dissimilarity in the refraction of the to eyes Congruital nystag mus is generally associated a th some defect which hinders central fixation and this must be looked for to allay the sourceon of neurological condition ACCURACE B DYESSA M D

Parker W. R. Visual Changes Due (Shousitis-Report of Tw. Cases, J. Michigan State V. Sec. 913, XII, 77

Parker reports 1 cases of visual defect due inmusts, one case of blashness in one eye and visual actioned 1 objects in the other and one case of terthodilla sensitis with loss of certain visuo in the fart case chinical examination as negative except of the case of the c

The chief points of interest in the first case ere the indefinit findings of the X-ray and nassi examination the swelling of the disks, the lat

choroidal changes, and the character of the fields I asion is the right eye varied from 6/7 (normal Vision in the left eye v ned from the ability to see Il's it up and is only otherwise shadows to normal in period of two years ten months. The fields in this case showed concentric contraction for form and color with a segmental contraction down and in i the right eye and up and in in the left eye. In the regat eye there was an entered blind spot, and in the left amail scotsons between the disk and macula. Operation on the postenor ethenouds and spherouds 1th evacuation of 2 dr of pus from each side brought bout an increase in vision and improvement in the funder fashers The choroidal changes were noticed after operation, begraning with shight pigment magration below the interior temporal vessels and below the macul-Later orbitalmoscopic examination showed night pigment disturbance throughout the entire fundas

In the second case vason at the onest. 31 6 in the regit of and in the left of the patient was able to count fagers up and out. External expans to was acquired. The tension was normal. The right of showed clear metals was posture outcome, and a hypernesse disk in the left of the duk as ordereadous, the vents were encoured, and there we are antiquated to call or refer. The fields of the right of were several. In the left or there was a large central sections and no green field. In the left of the right of th

ppeared Parker refers to the theories regarding the causation of retrobulbar neurita, especially those regarding simustic, and mentions three responsible factors, uz () pressure on the optic nerv be a dema. () inflammation of the artistal portion of the optic serve beginning in the orbital carol and (3) the presence of a general infecting or toxic agent in the blood. He beheves that in the two cases reported the difference in the field findings was dependent upon varying degrees of pressure on the ontic nerve and sheath due to cederar of the nerv and the lentag of the posterior ethnoad cells. It is a well known fact that cases of old pan almosts rarely show visual disturbances possibly became an immunity has been developed

Rilbrand od Sarneyr coatend that cases is retrobulken teeritte should be classified to it three groups in (1) tail nounties in the central reconstact of the coatenate of the coatenate of the coatenate contraction of the field, the central vision remained in tet, and (3) diffuse inflamenation, as its acute my chits.

With regard to diagnosis the author states that ritinace must not be placed caurely on the X-ray findings, and that the choroutine changes noted in Case 1 were due probably to the tone element that produced the lesion causing the field changes.

In the treatment, drainage of the sinuses may be indicated on the basis of the field changes alone, provided that toxic substances which might produce similar field changes and certain general diseases such as multiple scierous are ruled out.

ACCUSION B DYEMAN, M D

Whitmirs, A. Fundamental Considerations in the Correction of Squint 4rch Opins 9 3 lu, Whitmire reviews various theories regarding

squint and discusses the cosmetic and health benefits which are derived from operative later ference resulting in parallelms. He advises his patients to discard their glasses after operation 11 modulies Reese a operation by passing a No. sall, seture into the muscle proximal t the Prince forceps after the tendon has been divided at the scieral trachment This causes the severed edges to bend outward VIRGIL WINTCOTT M D

Mancilla, G. A. A Cavernous Anglorna of the Orbit (Angioma ca traoso de la órbita) Res seld de Serilla, 93 xb 26

The 11thor reports the case of man 20 years old who complained of pain in the left eye and over the left temporal area which was associated with prominence of the eye, diminution of vision, and occasionally double vision. The condition began five years previously. To years are he had a catarrhal conmoctivities in both even and the left ev remained inflamed for three months. Since then, all of the symptoms had been gradually increasing. There was no history of infectious diseases. whiles, or **ED KILA**

Examination of the left ey revealed marked emphthalmos. The globs was pushed downward and mward. There was proses of the upper hid which was under marked tennon. The communities was injected. The globs was of normal size and under normal tension. Vision was 20-40. There was himitation of the motion of the globe in all directions but especially upward. There was vertical diploma The fundus and media were normal except for slight hypersemia of the disk. The visual fields ere normal for shape and color. The right eye was

normal On palpation, encumerabed, morable regular non floctuating, non pulsating soft mass was felt between the globe and the upper and outer run of the orbit but not trached to either. This mass extended so fa int the orbit that its entire extent could not be determined. On uscultation no brust

or souffic was noted. On aspiration, pure blood was nbdrawn At operation the tumor as exposed by making an mosson over the upper and lateral border of the orbit od pushing the soft timues back. It was found t extend as fa as the apex of the orbit and t be attuated in the funnel shaped space formed by the ocular muscles. After its removal the wound as closed around small dram Healing was

complete in fifteen days. After a period of a few months all signs and symptoms had disappeared Vision and the motility of the globe returned to normal

The tumor was about 4 cm in its widest diameter red, and soft. Microscopic examination showed it to be a typical cavernous hemangioma with no

evidence of mahemant degeneration The author was able to find only eighty-three cases reported in the literature.

FRANCISCO P SCHUSTER, M D

Tuberculoms of the Orbital Cavity Roy, D Tuberculoms of the Orbits Literature. Arch Ophile 9 3 In, 47

The uthor states that diagnosis of tuberculosis of the eye made on the barls of ocular lessons assocrated with pulmonary tuberculous, bone tuberculoses, or general tuberculous in other parts of the body proved by the presence of the tubercle bucill or pathologic tissue changes characteristic of tuberculoas a much more pt to be correct than diagnosis based only upon the reaction to the tuberculin test or benefit denved from injections of tuberculin. In reviewing the hierature Roy was impressed with the frequent lack of thoroughness in the diagnosis, such as neglect to use known clinical serological and hutological tests

In this article he reports a case of tuberculoms of the orbital cavity occurring in his own practice and betracts case reports from the literature

C CORRIYY YORY M D

Williamson Noble, F. A. Endothelioms of the Orbit, Bril J Opick 9 3, vn. s

Williamson-Noble reports two cases of endothehoma of the orbit

Case I was that of a girl 15 years old who had proptoms of the right eye for two months. Move ment out and down was greatly limited, and movemeat up and in slightly limited. The pupil was macti e and the duk pale Vision was fingers at The ey was enucleated and the growth removed. The structure resembled carcinoma of the A diagnosis of schrhous endothelioma arming from proliferation of the endothelial lining of the blood vessels was made

Case was that of a boy 31/2 years old Exami-nation revealed chemous, dilation of the pupil, some swelling of the duk, and proptosis There was no perception of light Movement was impossible. When the eye was enucleated the orbit was found filled with a hard mass which apparently passed through the sphenoidal feature. The boy died atheigns of an intracranial growth. The tumor contained bone and cartilage cells and involved the lathrymal gland. The optic nerve was not involved by the growth but showed signs of compression While this tumor was not a typical endothelioma, it could not be regarded as sarcoma. It was rather a teratoma of the orbit with many endothelial cells forming blood spaces. I DESTRUCTED IN D

Kiffick, C. The Treatment of Conical Curnes. Best J Oblik 923, 264

Killick urges the more frequent use of Placidos disk to diagnose early cases of keratoconus. He reports sax cases. As a rule the treatment is say

peal

The pathology is not fully known. The cornea is greatly thannel and on microscope: termination Bowns a membrane is found intect but thissed not straked. Descript membrane is mechanical.

not withinked. Described membrane is machanged. In early cases complet rest of the eyes, the policiation of larne pressure bundage and general rare are beneficial but do not cause flattening of the crosses.

The main operation measures are cauterization of the correct, is the or without perfortion and ombined if necessary in () optical indecision, and tattoon g, () selections (i) excision of the period the cone (d) extruction, of the len (d) indecision of the indecision of the indecision of critical indecision or the indecision of critical indecision or the indecision of critical indecision or the indecision of critical indecision of the indecision of critical indecision of the indecision of critical ind

In one of the uthor case a simple cataract extraction was done 's the lens wit hoot transparent throughout fai amount of after-cut aret remained flow, a Crit bett found that vision in keratorsous is improved by narrowing the popul or in ting it recentible a stenopore sit, killick mide nairew critical opening in the capsule by disciousne Valried improvement in uson

resulted. The method de

The method described is advanced as rational, simple, and thout great diager. It causes no disfigurement and can be done in a reasonable learth of time. Supplies & Russian, M.D.

Japes, C. P. I terstitial Keratitis Due t. Focal. Infection, Am J. Opkis. 19, 1, 34, 1,45

This satisfied the report of trey lateresting case of intervit to iterating both had been reproductly reasted in a tryphiles remedies for months been been as insprovement and the other yet had become flected. The condition progressed it complet opinisectors of the crosses and total bland ness. Their fictions as the tomain and the roots of lane teeth. Very soon after these fact ere removed the pattern beautiful and the roots and the condition of the condition of

Forster, A. L. A Review of Aeratophostic Surgery and home I speriments in Aeratophasty Au J. Ophile 0.1 960

After reviewing the attempt i heratopi of made in any the last hundred years and simbing the futures to the fact that these cannot be to me ply ted from one species to another Torster in port the result of one tion performed on a

An equal teral triangle of 7 t 8 mm h g bees outlined on the corner the entire trust tout plend in sterile oil and then replaced and sut not the triangle transposed. The satures ere

sternhard in oil. The lids ere not satered but reminded closed for from one it three days and shalf opened for week longer. In fire cases the corner healed in the same plane and was ook slightly, have I one case it was opagoe and staphylomatous. Fandus details could be made out in all but one case. Where it is error MD

11. T. M. Primary Ring Surcount of the Irls. Am J Opt 4 0 3. P. 1, 545

Li report a case of rang sarroms of the fra with inspirited don increased tenson, and contrasted fields box and on the navel vole. A abort time before he was extunined by the author the pritest had noted blerring of viscos of on several occupita at digus. The value previously pace of site and lees remot refront the every Microsophe or assaustion boxed or rigor in the every Microsophe or assaustion boxed or rigor in the every Microsophe or assaustion boxed or rigor in the every Microsophe or assaustion boxed or from the every Microsophe or assaustion boxed or from the every Microsophe or assaustion boxed or from the every Microsophe or from the every district of the order of the diffusion right of the optic net mounted of the filtration right of the optic net aboved deep glattom took coppe gwith a erroses trophed

THESE RESPONDE VD

Harthers, W. F. Cataract F traction and Complications. J. Indust State H. Apr., 9, 3 Ph., 19

I selecting the method of treatment the operative must consider his own technical shakty, and expensers the nature of the catarant and the characters into of the prison I would be possible of mortisare are the corneal or select-corneal sections, the stoke corn, and the treatment of the lens capital. Reference in made I the treatment of the lens capital and central by booth and his per The mint-capital reportation performed by Smath the minter believes the filling set than on the contributions of the many contributions of the many contributions of the many contributions of the contribution of the many contributions of the contributions of the many contributions of the contributions of the method of the contributions of the contribution o

With regard t. the Barraquer operation, Horbestates that in selected cross and has the operator as experienced there is lettle of danger though effect u. of v. pt to persent in an mechanial instrument and hermorrh ge until the anterior handre exists a serioris indicate t. the Barraquer ferdingue. The complications orchode expoles, the contract of the could mousles superaing can be contracted as the could mousles. Superaing can be contracted to other mousles to the method of languagement of left, notified to the companied as the before the operation is stronged Other for, of infection in the trift the now and the throat should be searched for and treated.

If this quote Vasib rigining administion of the ri meet to recording of the entire time of the restation is a matter in ri. I make I raisent to the in-so of the importance. The sergin of the administration is the sought to the sergining the transmission of the circumstation less Vasible there is cited as revised for the removal of transmission catastrict in prevent indoor, this Secondary operhouses are recording to the circumstance of the removal of transmission of the removal of transmission of the removal of the re

necessitated chiefly by the extraction of unripe lemen, as these do not separate as completely from the capsule as npe lenses

A gentes B Dynax, M D

Pollock, W. B. I. Th. Treatment of Early Opacities in the Senile Lens, with Demonstration of Six Cases Glargez M J 9 3

hearly all ophthalmic surgeons ha e t times seen traumatic cat ract partly absorbed. A certain number of cases of spontaneous absorption of senile cataract re also on record. These however are

comparatively rare

Experience has show especially in the last t enty cars that the alk line treatment of senile cataract is successful and thit the results are not due to spontaneous beorption nor to the cleaning of vit recons or fundes opacities. Farly treatment is recommended before the vision falls below 6/ Potassium sodide cetat citrat and chloride are THOMA D ALLEY M D used as drops

Young, G. On Macular Perception in Advanced Catamet Bril J Ophik 9 3, vn. 67

In this article Young presents a case of high myopia with extensive choroiditis to demonstrat his method of ascertaining macula perception in advanced cataract. His outfit consists of four disks which fit the trul frame. The first disk to be used cross thread and serves merely t center the trial frame. The others has one t and three punholes, respectively. In the last tw. mentioned the holes are the circumference of circle with diameter of 3 mm W th the one hole dail in place the patient is brought ery close t frosted globe

dark room and requested to look f a spot of light. The other disks are then inserted, and if the patient sees tw. or three spots, macular perception is competered good I DECEMBER NO.

Pitt, G N Shaw H B Moore, R F Bardeley P., Adams, P and Others Discussion on the Significance of the Vescular and Other Changes in the Retion in Arterioscierosis and Remat Duesses Free Rey See Med Lond 9 3 kvi Sect Med & Ophth

Pirr stated that this was subject which interested both the physician and the ophthalmologist H hoped that the discussion ould make dea th rela tion between the amount of blood urea and the de velopment of the retinal changes, and the relation f the retinal changes t arterial pressure and arterio sclerous

SHAW reported that in large series of cases in which the heart as hypertrophied the sign of hyper pieces varies so greatly that in few days I will fall from maximum t minimum not is from normal Therefore t does not seem probable that it is due to such stable condition as aderoses of the middle coat of the vessels or proliferation of the cells of the intima. He attributes it t the presence in the blood anable amount of posson which causes changes

in the vessels. The silver wire appearance of the retinal vessels, he stated, is due to thickening f the middle coat, while the irregularity of the lumen is due to the thickening of the intima. He compared the retinal hiemorrhage t the petechne of infectiv disorders. H stressed the f cts that persons with renal retinitis live only a few years while those with artersocierosis hve great number of years, and the changes in arterioscierosis are slow while those of renal rigin are more acute. He cited eclampina as demonstrating that changes in the retina are du t disordered blood states rather than changes in the

kidney or retinal vessels MOORE endeavored to establish the three follow ing propositions

The ophthalmological appearances of arteriosclerotic retinitis are distinctive

2 The retinal existates are the result of local vascular disease

3 In the length of hie and the manner of death there is a sharp co trast between cases of renal and artenosclerotic retinitis

BARDSLEY stated that he had long attributed retunits and aderous t toxiemia. If the ophthal moreone show dyanced scierous thereon retinitis and this is associated a thalbuminums termination of lif may be forecast a months or weeks. The sclerose, is the index of the chronicity of the intoxication

Anams tated that in study of 150 cases of retinal duesas associated ith arteriorderous he found that the patients h ed t un d anced age unless albumin was present in the unne. The older the nationt t the time of the ornet of the eye symptoms the better the prognous

ELLE reported that he was making a sindy of renal function in all cases of retinitis. Two ficts so far determined are (1) the constancy of high blood pressure in these cases, and () the possibility of dividing them int tw groups, those with and those without gross disturbance of kidney function In cases with impairment of Lidney function uramia usually follow in short time Patients without impairment of the kidney live longer but usually dis vascular discuse

HANTMORNE objected to the nomenclature because the terms tosoc,' renal, and artemosclerotic retunits are based on undemonstrated hypotheses GARKELL pointed out that one disease involved the

kidney and the other the vascular system CLARKE stated that high blood pressure is one of

the symptoms f hemorrhagic retinitis and suggest ed that in cases of hamorrhage or exudst or both in only one ey the tension of both eyes be deter

Davies reported that f fifteen cases f poplexy mne howed marked arteriosclerous. In four cases the signs of artenosclerous ere slight, and in two the arteries were normal. Only one patient had harmorthage retinities Pirr pointed out that while arteriosclerous and

cerebral hemorrhage may co exist, they are separate entities. A small retinal hemorrhage is more ant to finds t thrombods atheaters sation than a pap Pitt haves his prognouls on the blood mra

and th kidney of comes

cases the reverse would be tour

Friting remorted that cases like he divided int two groups, those which he called arrerio acteristic and those he desire ted a read I the teral group be placed three with a definite I tory of acut perhates the perdutest persons I The write of large morets of protrin, and cil marked ordered. The wer are age of these put ents 4] \$ years All of them had belateral retlettle I the artenous brothe group the return age was 63 33 to tty per c at b da undateral retoutle. Friend tated to till a accept the topic oriena of the cet of therees the total should be found bund the is the urior ad in his concert than in the bland in the arterior, lenotic cases while in the renal

HARF AD drew attent on 1 the fact that phol are an evertial eler 11 advanced 1 ver of recal decare correlati that correlated by scalar disdk norman il

Bachanen L. Monocular Optic Neurith 2nd J CHI II I IN

res et feut cases of cute monocula eptecteum is filt as a possibility to 11 Au there of healthy women under rush he go with no other mittern t lad call a capter for the persiter dema except the appeared rold Light perception was about hed i i was it axes and doubtful I the others There a no laved errent of the ocula muscles and no exophibalous. The treat ent I cocusted forest in brid in a da k room blister i gof the tople of the int mal dislustration of mi ture of acetat and fortule of pot mi man! nerica. It is vision to promobile every less nor

Anun Armont Mil

Name II To Case of Tomes of the Optic Nerve Per J OH 1 915 100

Because of its rarity in ame reports two cases of turns of the optic serve

Cir was that of a boy 43 ars old For al y are the mothe had not used it i the left ere w growing larger. The right er was normal. The elt wa proptosed and distinguished objects oul as shadon. The pupil and trasion wer normal ed movement is all directions was mod. The left dal wa pale There as no cop or en Illing While choroidal vessel ere present in both eyes, those in the left were more opportal and several passed to the disk and there d appeared

The external canthes wa de sled. The external recits was severed between swimes, and the eyebull forward The orlet was I sand filled Ith an фr elastic mass, but small portion of the serve w unlared ed behind the globe. The m vs was removed by blunt the rection and the mers cut are the es half The sternal ectus as attared and the orbit drained. The lids were then stared

celling wo prest the tile has ture on and a keratitu derekered which left an aguet power of the levetor palpebra wa lost, the ey was abducted, and the are and optic new ere attephied. The anterior portion of the optic perre was widened into a sac. The optic perre w. seemal half wy back not then kered out. The new formation we composed of nucleated those utfirst in a network structure A diagrams of elemateds was made

Cocs w that of wormen to variold The right eye had been third for many years but had been prominent for only there weeks I sammaton rerealed moderat proptona, slight limitation of movement a slight the la tenune matere cateract

and so light perception

Facilian of the globe a begun but or! partial escater two was done been we a mass was fe t at the orbit. About the optic rem. hard knowled m was found There's co-the beace of the medallary she th. The forest trace of the larger endress w increased I desprote of embeliance as made LIBER BASES M.D.

LIR

Publican, A.G. and Kranz F. W. The I Sort of Presente Changes in the External Andrers Canal on the Arulty of Hearing. Are Cla Phiad & Loyage 0 1 Tile 545

I up to the present time to sturactory method he been devoted for testing the arm to of hearing is any asimal exerts man himself extensional ork has been larpited. The W bater reproperter a the most se live type of plo scal oparatus for the detection of sout !

The problem tax et consideration i thu ruck are () the optimizer air persons in the external sition caral for actity of branas () the quart t thre effect on accuty of bearing of recreases and decreases in the air persy red the external and day canal.

There lest were or de and the third test was re pe ted by using am II head type of telephore recerrer inst ad of themsophone. A vacuum t be carillator was employed for the generation of the trical current of the desired freque is and ther resphone for the transformation of the electrical epenns I I would opening

The thors truck the following concinous:

Lader ormal conditions the human im the est is probably under shight perit! presure

A negati pressure of a con of water in the ar of the external oditory and increases the act ? al brance by a factor of three

can of water P A negative pressure of bout pears t improve the transmission of sour I through the middle ar probably by decreasing the travel of the drum membrane increasing the traum of the connectival range attackment of the drawn mere brase ! the mulicus, and balancing the air percent on the two miles of the membrane

The more or less constant negative pressure reading seems to suggest that the tuba auditive does not open to balance the pressure on the two sides of the membrane as a commonl assumed

The anations in the cutty of hearing under these conditions seem to indicat that steps in the m the intensity of ratio of 5 or even perhaps o, are sufficiently accurate for all usual purposes in deter mining the cury of minimum andibility

IMPS C BRANKELL, M.D.

Shambauth, G. E. The Structure and Function of the Crists Ampellaris. Ass. Old Rivel 8" Lary gol 923 XXXII 443

In the thor' opinion conclusions draw from models are of ery limited alue as t is impossible to construct models having even the remotest resemblance to the delicate complicated structure in the membranous labyrinth Neither are vperi ments based on the results of operation on puris of the internal ear of lower animals of much assistance m the attempt t analyze the normal reactions of the end organs as operation is impossible a thout causing the escape of the laby rinth fluids. Rehance for an explanation of the reactions in the labyrinth result ing in stimulation of is end organs must be placed chiefly on in estigations made on the human being

The normal templation of the create is the result of endolymph movements against the aides of the cupola. In the author, opinion this motion of the endolymph is the result of the to-and fro movements imparted t the fluid by the pulsation in the laby math artery. Charcal evidence indicates that this as the correct explanation of the origin of labyrinth tocus

Shambaugh discusses the fistula phenomena the calone experiment and the phenomena of faturue ra some detail JANES C BRANKELL M D

Dennis, F. L. The Practical Diagnostic Value of Tests of the Vestibular Mechanism. Ass Old Rhael & Laryagel 9 3, xxxxx, 60

The author emphasizes the need for a uniform technique in conducting the examinations and for uniform nomenclature in recording the findings One observer douches with a ter at 68 degrees ! while others use a ter t 65 or 55 degrees F A faulty position of the bead in turning or douching may cause pparent perversion or inversion of the n) stagmus

It is important that the examinations be made by one trained in otology and worked out with neurologist who is familiar with the findings of estibular tests

Intracranual lessons are difficult to localise on account of the variable response t pressure. Pressure affects remot parts of the brain as well as near arran and good judgment is required t decade hen given finding is due t distant or nea by

The loss of responses from the critical canals in cases in which there is probably no organic central

lesion may be explained by the selective action of certain toxins for certain parts of the nervous pathways t the exclusion of others W know that, even in cases of central lexico, distant pressure can ablate the responses from the erticals and not so affect those from the horizontals. It is fact also that after the turning of normal persons vertical nystagons is much shorter in duration than horicontal avatagemen

Anomalies of past-pointing after stimulation are frequently encountered. This may be due to the fact that pest-pointing is a voluntary act. The findings of past-pointing are often disregarded unless confirmed by the findings of vestibular tests

The author reports ten interesting cases in detail. TANCE C BRASWELL M D

Mackensie, G. W. Some Remarks on Nystagmus. Ann Old Rhinel & Largegel 913 EEE, 4 7

\ystagmus is of two types, undulatory (oscillatory) and rhythmic. In undulatory nystagmus, which is due to impaired vision, the to and fro movements occur with equal rapidity. The visual defect is usually central and occurs early in life. In rhythmic my starmus, which is due to paralysis of the external

ocular muscles, mutative or destructive processes the eighth perve or the middle car or lesions of the cerebellum, the to-and-fro movements are un-VIDER WINDOWS MD equal in rapidity

Boxer H E Chronic Supercrative Otitis Media. Ann Otel Rhinel & Loryngel 9 3 xxxxx, 77

Boxer studied the results of treatment in 190 cases f chronic supporative otitis media to deter mine whether or not local treatment of the car had any permanent beneficial effect. These cases were classified int four types Cases of Type i were those m which the ducharge was thin and mucoid. and arose solely from the custachian tube. As a rule the perforation is of considerable size and situated in the antero-inferior quadrant, but in some cases the entire tympanic membrane may be beent because of previous active suppurative process of the middle ear which has since healed

Cases of Type were those in which the supparative process was confined t the hypotympanum and mesotympanum. The perforation of the tympasse membrane may be large or small and situated anywhere in the para tense. The mucous membrane hming the tympanic cavity a often markedly theckened and granular in appearance and secretes thick mucoid find containing many leucocytes

Areas of necroses of the bony walls may be present, and occasionally there may be necrous of the lower portion of the oscide Cases of Type 3 were those in which the sup-

purative process and necrons involved the attic as well as the lower portions of the tympanum Very often the perforation of the tympanic membrane is in Shrappell membrane, and most of the suppurative process is concealed Generally, however the attac seems to be involved secondarily so that

Shrappell membrane is intact. A probe introduced from below the level of the anterior and posterior lolds will find free access rato the attse and often will disloder masses of thickened discharge I agments of necrosed osucies, and portions of choicstestoma

which has collected in that region

Cases of Type 4 ere those in buch there us defaute supportation of the autitum and the adjacent mastered cells as ell as supporation and recross of the low r portions of the 3mpasum. This is often demonstrated by fistulous tracts from the posterior canal all leading int the mustood cells, the wallof which are often necrotic or by been enaled by cholestertom Occasionall the ad tus d ntrum has enlarged by a cholesteaton that the a torneal effect of a radical mistori operation is produced. A radical mastold operation indicated in Il cases of this type. Before operation, peepsratory treatment should be given to clean the middle ear and to ppendages much as possible is order that the postoperati care may be shortened. In any of the topes mentioned an open take contributors to the discharge may be present

The method of tre-timent used in the series of cases reviewed. essentially combit tion of the att eptic alcohol and caustic methods described by Politzer ad alled empirically by the thor the dry method as contradistinction to the

method i bich principos is used. All presiment was done in the office the pain t not being per m tied to use an treatment thome. In this better observations rould be made of the condition

and its control

This study revealed the fact that to not or t of the putients remained in good condition following treatment. The direction of treatment graged about four cel A surprising fact th 17 per and a often responded most readily. It has been contomary in the Mayo Clime t at each cone with brook supporters of the media test of treat ment before the radical mastord operation is ad seed

The conditions Inch seemed to be factors in the recurrence of the disch rate from the eaonen tabe head colds. functioning membrane on the promontory buch had not been entirel de stroyed and converted int aca timbe by the disease process and the ordance of queous sol tions in the ct is I goes cent of the cases in bich the dry after treatment there ears did not rem

small amount of mostere due t a fractioning membrane on the promontors or durcharge from the tube. The diration of the disease process before the national presented themselves if the Clans. as about fourteen cars bez nd age pperted to be memportant factors. C're not t produce udue hack pressure in the assophoryax and cost his found t be an t be when blowing the nove important factor in the control of the condition in the car as a pa ex t of the paix I report d that they felt thad very decided beneficial if it

Bort dra the follo ing conclusion from this

study

About so per cent of the patients at lowestanding chronic, supporati otitis media who ha a re-ponded satisfactors) to treatment remem to good condition for a period of I least one to to and one-ball years

Sex, age, and constancy of discharge have no progrept effect on the permanency of the cure 3 Long duration of the discharge is not neces-

sard an unity orable factor 4 The patency of the eastachian tube and the presence of functioning membrane in the raidle tar must be taken int compderation with the type of the doese hen prognoss as t the permanency

5 Local treatment must be ell directed and

continued as long as necessars

of core is made

6 Care in the blowing of the none is an important factor in keeping the ear dry in at least 30 per cent of the cases

7 M 1 princets home ears were cured and remained dry ould have been subjected to mustood operation if a conservation ties had not been taken and if local treatment had not been continued as long necession

8 It is removably safe t suggest that mrppurate e car conditions hich have responded ell

t treatment ill do so euo

o Drich ree from the tube after the appearance process has been controlled may be considered of minor importance so is as true diager is roscemed

Thomsen on Coldins, G. The Treatment of Oticle Media with Tuberculin A Out Rie med &r Larn red 0 1 torto 40

I the athor orangon large part of the skepticome regard to the value of tubercuba to due to the fact that may men do not know such test # cree and do not understand her endicated in gr se tuberculus therapeuticulis

Many persons thout an or process result t tuberculus because of the delicacy of the test and because most persons ha had tuber culous infiction t some time. It is essential to know how to differentiate the active from the latent infection

The thor review the Moro, on Parquet onmact | ntracutaneous and subcutaneous tests. The subcutaneous test is a thost doubt the most vin ble but as the reaction is severe it a sometimes contra indicated

The history should be taken carefully in every that of chronic otitis media and if there is remot to suspect previous t berculous infection the patient should be thoroughly tested with a berculin

The author reports fi cases of chronic other the high the use of tubercidin ga excellent medi If dra the following conclusions

bround paperers time car I nate to the should also be test d for t berealous

Il ben patient has positive reaction to the prope tuberculin test he should be treated with

tuberculm, even though other bacteria are found

in the car ducharge

3 A patient reacting positively to tuberculin test should be impressed with the f ct that the progress is good provided he takes treatments regularly

4 A mastold operation should be done only as a JANNER C BRANTELL, M.D. last resort

Dench, E. B. The Radical Operation in Chronic Supporture Otitis Media. A Consideration of the Technique, the Use of the Frimary Skin Graft, and the Result of the Operation with Particular Reference to the Function of the

Ortan. Laty rescape 9 3, EDER, 54 I the United States, and especially in New York, there seem t be many men who belies that the racheal mastered operation should be employed only in cases in buch the middle ear lesson as threatening ble and those in which the function of the organ has been so decreased by discuse that any further danger to bearing is impossible

There are various opinions as t the success of the procedure in obtaining a dry ear. In the uthor opinion the chance of success in obtaining dry ea and of preserving the function of hearing depends

on the operator' technique

The ear should be carefully examined with the speculum and with the \-ray Ordinarily the creson hould extend from the trp of the mastord upward, following the bos of the insertion of the auncle and 1/2 in behind it. If the mastord is large and paramatic, it should begin below the trp and extend behind the car is enough t permit even teration of all the calls, but still rest upon firm bone

If the masterd is ackrotic, the meason should not extend below the tro, and the trachment of the sternomastord muscle should be left undisturbed so that the planes of the neck will not be opened to infection. If the 2) pomatic cells are extensively involved, only the soft parts covering them should be seemed the temporal muscle then being elevated

without cutting

The facual ridge should be taken down as low as possible, and the floor of the canal should be lowered The hypotympanic and the posterior space should be entirely obliterated and the custachian tube thoroughly curetted Anomalous positions of the facual ridge should be borne in mind

After the cavity has been formed the most im portant point is the enlargement of the enternal auditory means. The cavity most be serated properly of t is to remain dry. Thus is impossible if the cavity is large and the meater small

The author advocates the systematic use I the primary skin graft. H employs it a every case other than those operated on during an acute ex accretation of the chronic inflammation. H. tacs it rrespective of exposure of the sinus or dark unless the sums or dura has been ounded. If the laby much has been opened the one of primary graft is contra understed

A large graft completely haing the cavity should be employed. The air beneath the graft should be removed by papette as recommended by Rallance and the epithelial insert held in place by pledgets of sterile cotton. The graft should be forced well down into the mouth of the custachian tube, and lapped well over the anterior wall of the canal After the bony carriy has been hard, the redundant portion of the graft should be bent forward and the surrele replaced The redundant portion should then be drawn through the enlarged meatus and held in place by a packing of sterile gauge

The uthor reports the results obtained in a series of 480 cases made up of two groups (operated upon in private practice, and () 368 cases operated upon in hospital practice

The hearing was made onse in only a very few cases. The thor has determined that if a patient hears a moderate whisper at ro ft and sho s no evidence of disease of the perceptive apparatus, the hearing may be slightly impaired after the operation. If he hears the whaper at a distance of only 4 ft or less and there is no evidence if disease of the perceptive apparatus, the bearing will probably be unproved

In the entire series of also cases there were fourteen deaths. In the private cases there were three deaths none of which were due to the operation. Amety five of the privat cases were cured that I the ear remained dry. In seven there was less discharge, and in three there was no improveme t. The result in four is unknown

The hearing was improved in suriv-five of the privat cases, remained the same in t enty seven. and was reported worse in eight. The result in nine is unknow

Of the 365 hospital cases, the car is dry in 114 The result in 243 is unknown In thelve of the cases the hearing was improved, and in one it remained the same. The result in 345 cases is unknown

These statistics show that the operation is as devoid of danger t hi as any major surgical procedere can be "Of the complications, facial paraly as a the most to be foured. This occurred in five of the private cases but cleared up entirely. Its incodence in the 368 hospital cases is unknown but it

as low and all of the patients recovered The after-care commute in removal of the epithe

hal cast followed by the application of so per cent alcohol to the wall of the cavity. The ear should be examined once or twice year I a large number of the cases the hearing can be improved by applying disk of cotton saturated with sterile vaseline over the region of the stapes II B STARE, MD

TO37.

Fenton, R. A. Sinneltis from 8 haming. Aus (Not Rhund & Lar) got 0 3, xxxxx, 526

Water dra a out the saline elements of cells by ownous, causing ordensa, acidosa, loss of cibary activity and eventually cell death. The specific

protective substance of the slous secretion is washed away or inhibited by the ordema and chemical de

generation of the accretory cells

The deaper of contamination by other arumners in decreased by the coolean of the water its contain aptition, and the high dilution of the contamiation. The assumption that most persons accuming to should a liter menting are possible to the containing the size of the containing the size of the containing the size of the containing the

Direct traums to orth and sustonal Hungs and boay defunction may be caused by the fortible inrush of water especially chlorinated water and the fortible outresh of air bubbles

The prevention of annualis due to a liminary is airply a matter of variating protosa with latter usual infection chrone cokis, and dimilar cook it than the property of the very representation of the property of the propert

JANES C. BRANNELL, M.D.

Donn, L. W. Complications of Paranaus Sines. Disease in Infants and Young Children. Aus. Old Rival & Layers 1912, 2221–183

Dean emphanies the importance of early recognition of purshand aims disease in children as the complications are often very severe and may lead to permanent deformities.

Many cases are described some in which the postssortem findings fully confirmed the diagnosis

made duture ble

Arthritis, a Irregioni and actions complication, cleans p if the sum condition in recognized early and treated. Parassal sime disease may cause systems; foreign as early as the age of 3 years in infants and young children it is sometimes difficult to cure permanently.

Bronchitis is a ery common result of the disease in infants and young children. In the case of every I at with bronchitis, even if adenoids are present, parament stores disease about the suspected and the

Decausery exists george eson Decausery exists george eson

The duesse m y he the source sign of preumoust, and frequently there is an interdependence between premaril annus duesse m young children and eathers.

One of the characteristics of diseas dheese in roung chalfurn is herinche. Usually this affects and is timbered by the purests t ey streas. In some cases the bearings may be neurolage because of volvement of the mass graphic Senstinues the frontal part and very executating. A beginning tuberculous ment juts will cause the same type of pain as an acute frontal empyorus. Other of pain as an acute frontal empyorus.

symptoms of sixus disease are assal stoppage and a feeling of fallness in the bend.

Complications such as recurrent fover periode wombing, pychins, carvical adentits, brain absonocalar arrolvement, etc., are described in their relationship to parametal same disease

One of the next common and important compositions which must not be overlooked in particular, but must be now the control of the control destruction. This is unsulty so succeed that it is thought to be the primary treable in the station of opinion it is questionable whether the stations of opinion it is questionable whether the disturbance in the credit of the swallowing of the must discharge or due to the chimination of factural products through the gaster national tract.

A R BOLLTONS, M.D.

Harter, J. II : Practical Considerations of Ethanaphenoidal Etmatria. Largetonips, 1913, 21201 4-1

Four Important points in the prophylam at ethnospheroidal samutus are () the accounttreatment of acuts corp.s. (s) the avoidance of forced blowing of the nose (s) the avoidance of nazal doubling, sucept in cases of comes, and (s) the removal of any intransial obstruction to verific too and distinger

The author gives the chandration of some diseases and the most important points in the day some In the diagnoss of chronic chimosphesoidine points of importance are () the widely evidence presented by the mail cavities, the pharying and the appharying, () the rentgeorgium, which shows the size and shape of the cells, and (j) the characteristic pain.

The pathology is described in some detail. One servaine trustiment is advanted for acute cutterful and acute supportative cases. For chronic cutterful cases with only small amount of ducharps poliative measures are recommended.

A R HOLLEVOR, VD

Bushinger, M. B. Naval or Sphenopalatine Neuroals. Term State J. M. oat, 35, 55

Bothsager introduces his discussion of the spheric palatine memorals with review of the authory to above the relationship between the sphericopaltine gangion and the various accessory stomes of the

The neutrons is of (types () the neutronconsisting of intense, exeminating pain radiating it any or all parts supplied by the branches of the gaughos, and (2) the sympathetic, in which there are parous inns of successing and watery ducking from the none suggesting kay-fever but which as as way do at 100 lies.

With regard to the differential diagnosis the following possis are mentioned

Communition of the sphenopulatine gaugher stope the pain of a lenon in the gangloss

Cocamulation of the sphesopalatine started of the does not in any degree stop the pain caused by the

more central lesion of the nerve tranks, maxillary and vidian, secondary to spheno-ethmoidal inflam

mation. The intrasphenoidal application of pain reducing remedies, such as cocame will stop the pain that is, local anisathetic applied centrally t

the ganghon will be effective

The treatment consists in injecting into the ganghon from 5 to 15 minums of 5 per cent phenol in 95 per cent alcohol or swabbing the area with an aqueous solution of 2 12 25 50, and 75 per cent

miver nutrat after cocaunization

For the injection, a 5-c cm Lucr syringe a th a 1-mm 534 in needle with cross bar is used. In some cases the injection must be repeated. The best results are obtained in the cases of sympathetic perross. When same discuse is present the author uses the suction apparatus

The complications, which are not numerous or

severe include the following

1 Pareus of the abducens after the injection Swelling and ecchymosis ppearing in the

cellular trame beneath the lower hd and closing the eve after the injection 3 Secondary hemorrhage from the nose, which

often makes packing necessary

The entrance if the alcohol phenol solution into the pharynz or the larynz The article is concluded with five case reports

O M ROTT VID

MOUTH

Blatr V P and Moskourtz, M. J Cancer of the Mouth and Jaws. Internet J. Orthodoxi. Orel. Surg & Radiography 923, 12,

The uthors believ that dentists should recognise the importance of thoroughly observing all the mucous membrane exposed in the course of an examination of the teeth in order that timely dvice may be given in cases of precancerous conditions The relation of syphilis to the etiology and than nous of mabgnant disease of the mouth is of great importance. The treatment of early cancerous or precanceroos lessons about the mouth with irri tants is wome than failure to diagnose the condi-LIOD

A want or warty growth forming at point already the sit of condition predisposing t cancer should be regarded as an actual precancerous condition Leukoplakia is the most common local precedent of cancer of the mouth. The conditions considered by Buthn as the most typical and frequent form of cancer of the tengue in its early stages are men tioned. There are certain characteristics of cancer

back it is essential to remember () the chromesty of the disease, () the continuous growth, (a) indura tion (4) ulceration, (5) pain, and (6) involvement of the lymph nodes. In the presence of squamouscell epithebonia of the mouth the lymph nodes should be considered as already infiltrated.

E C ROSTRICE, M D

Heldrich, L.; The Surpery of Carcinoma of the Mucous Links of the Mouth (Bestrage rut Chrurge der Mundschleimkantearemome) Beitr

Charto j, con m, j

This careful compilation covering a period of therty years and 266 cases proves that carcinoma of the mucous membrane of the mouth has the most unfavorable prognosse of all cancers. Only to per cent of the cases were permanently cured, and cancer of the mouth is fifth in frequency of all cancers On the basis of his cases and those in the literature to date the uthor discusses the relationship of age and sex to the condition, and its origin, symptoms, duration, and localization

Involvement of the neighboring timues is of great importance. The migration of cancer particles into the internal organs is very rare in cases of cancer of the mouth. An early diagnous is essential the im portance of biopsy of every suspicious tumor or alcer of the mouth is particularly emphasized. Early diagnosis should be followed by early treatment At the Kuettner clinic, however the limits of operability in cases of old cancer are very broad For the prevention of cancer all injuries tears, and festures of the mucous membrane, and particula ly ulcers must be treated correctly -never with caustics-and under certain circumstances a specimen of teams should be extract. If hopey shows the presence of cancer immediate surgical treatment is unperative

The rule of the choic is small cancers, large operations. Mere excuson of the tumor alone is not sufficient. In every case total removal of the glands is necessary. Only when this is done can one speak of radical operation for carcinoma of the mouth Pre operative and postoperative treatment is of great importance. The peration should be per formed under local anisathems. The details of the The details of the operative technique must depend upon the attuation of the tumor The Sedillot Locher median splitting of the saw and the lateral sawing of the lower 1 w by the Langenbeck Bergmann method have been found to give good exposure of the mouth and easy pproach t the leason. The cautery is not used in

Of the patients a hose cases are reviewed 3 9 per cent ched following the operation and \$6 were ducharged from the chinic as cured I cases of moperable cancer the pain was decreased by excusion of the alcerated cancerous focus supple mented by the administration of analgence. It was not influenced by bilateral ligation of the external caroud the injection of diphtheria or crysipeles sers or roentgen treatment. In spate of faultiese technique, the latter was sometimes followed by very rapid growth of the tumor

The average duration of hie after radical operation was twenty seven and four tenths months in cases

of tongue cancer t enty-six and two-tenths months in cases of cancer of the mouth, ten and two-tenths months in cases of cancer of the pharyngeal tonell. mneteen and eight tenths months in cases of cancer of the bocral mucous membrane and fifty-ax and two-tenths months in cases of cancer of the arrala. Suppose (2)

Morgan, E. A. Ukarative Stermatitis and its Treatment by the I travenous Injection of Arsenic. Am J Der Child 9 1 227 154

The other states that the terms Vincests anguan, treatmost knowledge and supported properties refer t an acute milectors of the guns by speaking and facilities the clause local leges such as speaky? Merching sums and accrosic arrest the terms of the second companions each as maisse, pyrems, and accrosic arrest methods and accrosic arrest sums of the second companions and accrosic arrest second companions and accrosic arrest second companions and accrosic as the peed t. Vincenta is metion and described as such The olivers in ulcrature stomatine are small and subsort the ragged accrotic appearance character.

istic of Viacent infection.

Lowered vitality and oral uncleaniness are the chief predisposing cause of supportative geographic The exciting cause is an infection of the gums by

the Vincent organism.

The two principal modes of transmission are known and the use of food tennis thich have been

careleady asked
The ones of the condition is usually sudden.
There is general malane with a light clevation of temperature. The breath is very offensive. The guns are deep red and bleed very resulty. If the condition has been present for four of him days are the properties of four of him days are the properties of four of him days are colleged to the properties of the p

The local synthection of Bowman s solution is exp popular. The author has trusted twenty ficuses for the intra-tracor saministration of stream. The results have been ery satisfaction; and is some cases spectacular. The crage length of time required t effect curs was fix and one half day in every case the cure appeared to be permanent.

Kolmer J A Araphanamia Treatment of Sporechartic Gingiritie Am J Clin Hall 9 3 xxt 243

In sprochete majorité, comocoly kown es procrètes alveoirus or Riggy deseu, the lost application of per cent solution of amphenamia should be used in per ce t sol tion. The amphenamia should be used in per ce t sol tion. The appearamia solution and the control aller solution. The necessiphenamia solution is necessarily to the control aller perpared to distilled to

prepared to distinct the property of the day as best placed by means of tringe. The drug as best placed by means of tringe One cube cestimeter of either solutions audicent Usually six t tea dudy treatments suffice. If betteral activity is unspected in distince, some mercurophen, or alter solutions about be used in conjunction in the amenical preparations. For triving these double infections, holmer recom-

mends maxture of equal parts of 1 per cent solution of araphensium and one solution of mencurophen O M Rott M D

New G.B. The Use of the Delayed Flap in Secondsty Operations on the Palate and Autrona Bismerois Med 9 3 vi, 4

The greater number of patients the cleft palies who are operated on at the proper age obtain complete closure and good functional results for the patient of the complete closure and good functional results for the control patient of the control patient patient patients or control patient patients or properly Soch openings are due to the operator's fact of involving of the principles of cleft patients surgery. Such openings are them that and out patients and are the control of the fact and social patients and are the control of the fact and social patients and are the control of the fact and the depending on their use and location and the smooth of scarring present. It is to these post openiture cases not those of which cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of who case of the cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of which cleft patient (many openiture cases not those of which cases are considered to the control openiture cases and these of which cleft patient (many openiture cases not the control openiture cases are cases and patients and cases are cases are cases and cases are cases are cases and cases are cases

operative cases and those of wide cleft palete (many them double) in which double arises as to the best procedure to follow that the other has found the

the of the delayed flap very naturalisationy

It is best to wait at least three months after the first operation before ttempting a second as operations performed immediately after the pri mary operation usually result in failure. For the closure of postoperat ve openings of the palate these may be obtained from the palat itself or from other parts such as the cheek or the neck. I obtaining turns from the pal te three types of flaps ma be used In cases of small open; as with hittle starmag the miscoperiosteum around the opening may be freed laterally and the opening closed by means of lateral incisions and matters entures The objection to this method is that the scarring around the opening is sometimes so extensu and the treme so inclusive that the messal margins are brought together under shight tension and sloughing sometimes results. In other cases closure may be obtained by making flap ith pedicle long the margin of the postoperative opening, turning it



Fig. The closure of pasisperative opening in paint by meats of delayed key with posterior peticle a. The high has been elevated and surfaced back is place, and at the same time the opposite side of the paint is feed? I cred the flap is again elevated and the meaning margins are paired and then national despitely as shown in §

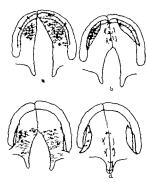


Fig. The closure of a postoperative paint in belt opening in on the authority into much accumpl to the ownal languablest operation. A Flags are desirated to the control for the control factor of the control factor in place. The appearance of the paint is set fored at this time. First closure of the authority factor is completed one evid later. The first rings of the second operation in these instance part rings of the second operation in these instances are the second operation of the statement postope. The paint is completed one of control factor in the second operation of control factor in the second operation of control factor in the control manner.

completely over hinge like and suturing it under neath the freed margin of the opposite side of the opening as described by Line. The scarred margins of the opening, however make ery poor times for peticle especially when the flap is turned over on niseli.

The D via Colley method is armiar to the Lane method I hap are obtained from each note of the palate. One has the pedicle along the mensil marga of the opening and in turned over hings-like. The other is long and rrow ith its pedicle posterior. The latter is suitared over the other hap with its mucous membrane tow rd. the month

The third method is the use of a pedicie flap—ith
the pedicle potention on the palatt—hich is
brought across in—one at ge operation with its
mucous membrane sortice toward the month

The method luch the author has found most successful in the closure of both large and small openings is the application t cleft palat surgery

of the principles employed in using the delayed flap in plastic surgery of the face and neck

"The flap is outlined on one side of the opening is the peciale portenor and then levited and placed back in its rignal bed. At the same time, the opposite side of the opening is elevated from its meanly marpin and allowed to fall back. A suttree of the major of the opening with the current position. At the end of a week, the flap is again elevated not the meanly marpin trimined and setured across the opening it the freshered in elevated marpin the opening the flap is again elevated in the opening side. During the west of the span and the flap becomes taken to the become the cere. In the second risage, minute areas of soons, if present, are trimined of as the margins re-trimined of as the margins re-trimined.

If the original opening is cry large or the postoperature complete cleft pather is very vide with marked exaring, I may be necessary to effect the douge in to stage, at the first stage cloud; the antenor part of the public by delayed flaps from eich side thout freeing the poneurous of the public and three months later completing the closure by the two stage langewheet, operation

The same procedure is employed in closing postoperation openings in the antrum following outcompellits of the jaw the removal of malignant goods, not of Denker operation. In flaps is elevated from the immée of the observation in flaps is elevated from the immée of the observation of the peciale lings and these stutured base in place. At the same time and the saturated has in place in the observation of the flaps is satured in place round the opening. The peciales may have to be cut in a set, or ten days and replaced to the cheek, but this may not be necessary of the base is close; the opening.

The results of this method of closing postoperative openings in the pilate and antrum have been much more astart droy than those of any other method tried. Closure may be effected with the delayed flap in cases of delt pilat: buch were formerly better taken care of by means of pitate and in cases in which the micropersoletting were thin. While this method does or make all cases of cleft pilate than extend of committee all cases of cleft pilate than the state of the portable that sadded it the operable prop many which were not benefited by previous operative procedures.

THROAT

Carisa. J. Rhimopharyngitudes. Their Rôle in Conception and the Development of Certain in fectious Descense (Les hmopharyngies leur rôle date is contagnon et le développement de quelques matides mienteures). Je med de Berleis 9, 1 km.

The whor reports three clinical cases illustrating the displayed by inflammation of the rhinophary are the development of infectious discusses. The first was that if a pyear old child with acute tomalities due to account election. Recovery was above Alice filters day, sudden severe pain developed at the level of the upper spiphy see of both the ze and the

lower and of the right femer. This public in its mety four boars to box formentations. Five days later there was another attack of pain in these areas but there was another attack of pain in these areas but it submided again into few looms. Sock attacks continued. One and one half months after the onset of the trutoids another attack was acrompanied by sore threat. The sore threat yielded to gar go of hydrogen pervides. The loosal crypts were a few of the control of the control of the other control of the control of the control of the other control of the control of the control of the long was done. The crypts were if it of foot long.

The two other cases reported were cases of nephritis One was acute and one chrome: Both were lighted up by attacks of tousibits. Other cases of phannaged infection with pelisonary complications are mentioned

KILLOGO SPEED, M D

Peterson, E. W Septie Fallowing Tonelliectomy
Ass. Surg. cast. https://doi.org/10.1007/j.j.chm.

Peterson reports the case of a child 4 years of age who was allowed to go home on the day following a tonsillectomy and adenoselectomy and that night developed a lever of 104 degrees F with swelling at the angle of the saw on both sides of the neck When examined, t had a temperature of jot de grees F and as apathetic and decidedly septic The general examination was ID ATTOCATABLE negative except for the presence of dirty-looking membrane in the tonsilar spaces and a supportative cervical adentits just below the angle of the se on the next side. Increson and drainage of this abscess had no effect on the general condition. For the first ten days the temperature remained constantly high. ranging from 1 to 100 degrees F It then became intermittent and ranged from or t almost or degrees F There was more or less fever for forty

seven days While in the beginning the patient was apathetic and wished to be left underturbed, he was later extremely hyperesthetic, akeful, and fretful On several occasions he had a severe chill H lost a eight and strength gradually and showed moder ate secondary anemia Blood cultures ere negative When the sepals reached subscut stage trans fusion of 320 c cm of unmodified blood was given int the left external parely em by the yrange cannula method. This was followed by decoded fall in the temperature and improvement in the appetite in strength, and in the general condition After fe days, however the temperature begun to row again and a hard swelling developed in the left paroud region and gradually increased until the left eye was closed. Later fluctuation could be detected just above and in front of the left external auditory mestus. Increson into this mass revealed periosists of the mandable on the left side just below the articulation. Another transfesson was then given Following drainage of the focus of infection and the blood transferion the temperature dropped t pormal and convalencence was raped

and complet

OTTO M ROTE M D

Recher H. L., and Lemerre, C. Lymphesercrons of the Touchi, the Tayrood and Both Testicles (Lymphosercore de Fany edule du corps thyroide et der deux testeules) J et méd de Berdeux 9 1

In M y 193 only true old boy suffered an at tack of suppose As a membrane appeared on the left tossel, anti-chibitation errors was green. For days fewer of the left tossel, anti-chibitation errors and green recognised to the left tossel begrey aboved the recognised to the left tossel begrey aboved to the left tossel beg

has go the thy roat developed.

On examination November so the child was found to be alcholte and in good condution except that has foce as slightly olden and congested. The left tomal had almost completely disappeared and the phanyar as negative. The thy road was embarged and hard, but the overlying aim as not adherent. The boy had no pain and the thyroid mass moved on deprintion, giving no evidence of laryingal or recurrent networe pressure. The fit testick we hard and though the size of an egg. Where it as it tached and the size of the conductive of the size of the s

Giddings, F and Ehrlich, D E An X Ray Study in I tubation Large cope 0 1 xxxxx, 40

As there appears t be so record pertaining to the N-ray artify of intuitions the utbon's tempt t persent graphically the various steps and soons of the masterps in the procedure. Menion is made, however of the work of Shurley ho in oop preserted the subject of virialization of the proced reof mitibation in a sense of illustrations made on the dissected cadaver.

I tubation like an other tract procedures for and be familiar the the hardnering should be familiar. In the hardnering should be september opening of the laryest and be able to ment the tube questly but not hastily. Without harry mg, patient cun be intubed and exhabited within ten percoads.

The intubition set as originally devised by O Daver is still used but ith one or t modifi

uses as that angiver. The tribe consists of a syndrical meta corresponded by a laterl rabber covering so moder surrounded by a laterl rabber covering so moderate that a west at the med person accommodates the larguage and configuration described as the super part of the larguage and the larguage and the super part of the larguage and the larguage and the larguage of the larguage and the larguage of the larguage which passes wared stong. The string acts as assignant of teneore the tube of it accordinally sinds to way into the compliages. The reason for waring the string a to lessen the possibility of its becoming the string as to lessen the possibility of its becoming the string as to lessen the possibility of its becoming the string as to lessen the possibility of its becoming the string as to lessen the sponsibility of its becoming the string as to lessen the sponsibility of its becoming the string as the lessen the sponsibility of its becoming the string as the lessen the sponsibility of its becoming the string as the lessen that the string as the lessen than the string as the lessen that the string as the string as

A tube which cannot be coughed up has been devased for special cases. Although metal tubes have been used as substitute for those covered with hard rubber experience has shown that the latter are most suitable, especially when the tube must be returned for any length of time.

The author calls treation to the anatomy of the larynx with regard to inrubation and describes the technique of intubation and extubation in detail

One I the rare complexious is the shoping of that is built the tracks and then into the bronchis. This may be due to training in the strempt to estibliat too maill take, or to a relaxed condition of the laryest. More frequently the tube may be coupled up and pass into the macopharps. Its position may be detected by digital examination, the lawer and of the tube being felt in the overplaryest. Still more frequently the tube is recovered from the back of force or a discovered in the enoughages or reallowed and passed with the stool on the third or fourth day.

The identifications should be referred to by those who with to visualize the many suggestions offered by the authors A. R. Hentressa, M.D.

Willia A One Hundred Cases of Laryngest Growths Resoured by Indirect Laryngoscopy Internal J S & 9 3, xxxvi, 444

Whis upper the removal of laryngeal growths by the induced method and reports on cases treated in this mainter. The idvantage dismed for the method is that it renewes the growth with very little desconfact: It has pattent and without injury to the lary nx or any other nak. In fact, the patient is perfectly well as soon as the operation is com-

pleted Moreover the operation can be performed in the office.

Several days previously small doses of potassium beomic should be administered to relieve mental strain, and half an hour before the operation 1/ on gr of stropen should be injected imbentaneously inserts accretion. The operation is faultated also if a sotting is inserted through the epiglotin by mean of a Horoford needle and the prairly pulled forward

The pharynr and larynr should be sprayed with a to per cent freshly prepared solution of cocame and two minutes before the operation the vocal cords and the growth should be sprayed with a 3 per cent

nol then of cocause and only a oil

Mackenner s'orrors are of value in most cases, especially if the growth is situated at the posterior and of the largust of on the upper unface of the cords. Grant's forces are specially adapted for timers on the edge of the cords protruding into the lumen of the largust. Whether forces are service-able for the reportal of pedimentated growths. The universal forcess advocated by the author consists of Krause century basic on a universal handle.

Orro M Rorr MD

NECK

Thomas, W. S., and Webb C. W. Chresic Tay raiditis. Cifee Med Bull Chiton Springs, N. Y. 1913, IX, 1

Chrome thyrolditis is sometimes called Riedel a disease because it was first described by Riedel in 1896 Since Riedel a report a few other cases have been reported

The condition is interesting because it resembles cancer in its rapid development, the welling of the neck, the compression of surrounding structures which are included in its growth, and its hardness which are included in the growth in the retent from cancer in that the patient recovers when the constriction is referred by the removal of a small pose over the tracket.

The typical case reported in this article was followed by myracdems due probably to the removal of too much of the growth. The sections showed only connective trans. The sections showed importance of avoiding too extensive removal and state that the use of the Veray is contri-indicated or account of the danger to the few remaining thyroid cells. In conditions they suggest that posnibly cases diagnosed as cancer which recovered were in reality cases of chronic thyroidized.

E A B CHOARDER, M D

Groove T. A., Christis, A. C. and Merritt, E. A. A. Rerière of the Treatment of Hyperthyroid iem by All Methods, with Sammary of the Authors Experience with Rosatgen Therapy Am J. Receipeds 9, 348.

The authors discuss the treatment of hyperthyroidism by surgical means and by receigen irradiation and call attention to the importance of general management such as rest, diet, symptomate treat-

ment, and the removal of foci of infection. They conclude from variable statistics that in the exophthalmic type of hyperthyroldism the operatimortality is between 2 and 4 per cent while in hyperfunctioning adenoma it is about a c per cent Surefeel treatment effects a cure in about 75 per cent of the cure

On the basis of Pfahler' experience rocatgenray treatment in hyperthyroidism offers the same hance of cure as surgery Pfahler concluded that radiotherapy is the best form of treatment for t sic gotter if the authors expenence the average number of treatments necessary as fi e or six. The first four should be given three weeks apart and the next t at intervals of one month. After the fourth treatment the basal metabolic rate usually decreases teachly the weight increases, and the entire clinical picture indicates rapid improvement When the condition does not improve after the

fourth treatment, the roscectoms is radicated The advantages of the roentgen treatment are its freedom from danger its case of amplication, 1th a minimum of incon exicace and loss of time t the patient, and its variability in inoperable and post operati e cases ARTRUR L STREPPLES, M.D.

Read, J. M., ad Hist, R. S. The Chilcal Value of the Goetech Test, Hel C Y Am to L YL

The authors carried out the Gortsch test on fifty-upe patient who were referred for the diagnous of more or less obscure subscut and showed amptoms suggesting that od disturbance or obscure pervous manifestations

In paly t o cases was charged discours of thyrot access warranted. Both of these showed little reaction t epinephrin I cases such howed a climical picture of hypothyrosium gay posito e reaction

A positive response was given by forty cases Sixty t per cent of those giving positi e re sponse and 5 per cent of those go ng negati response showed focal infection

The athors explain the failure of cases of the rotomcoses 1 respond 1 the Goetsch test by st t-ing that certain cases show little disturbance of the sympathetic servous system. They divide patients with the road disorders unt three groups those with manufestations of toxemin those ith altera tions in the metabolic function of the body and those with disturbances of the sympathetic nervous avatem Sloce the response t epinephrin varies ith the degree of un'alvenest of the sympathetic system its value in hyperthyroidism depends upon whether the an observent of the sympathetic system is the predominant factor Science L kook, M.D.

Store, M. A Statistical Discussion on Golter (Statustriche Bestracge zur birums) Deutsche Linch / Chu o s, clani, s s

thor review 4,379 cases of gotter operated upon in the past air years. Recently the incidence

of the condition in males has increased from 16 1 to 30 4 per cent This finding agrees with other reports in the literature high indicate that in severe endemics the incidence in females is relatively less than that in males According to the opinion of the majority of phy denant, the incidence and sever ity of gotter have facreased since the war

The majority of the pytients coming to operation are bet een 16 nd 20 years of age. After the twentieth year the decrease in the mendence of the condition is greater in men thin in women. According to the thor observations there is no relationship between strenuous ork and gotter

In the cases reviewed most of the gotters found in the young eighed between to and no emwherea those removed from older persons welshed from too t 150 gm. The hea sest goster (that of a man of 4 years) weighed 865 gm. In two owen, 31 and 31 years of age the gotters eighed ,060 and 1,535 gm respect by Purely parenchy matous growths were found in 47 per cent of the cases It was noted that the incolence of calculed gosters as grt test near the Alpine regions. Subjects respiratory amptoms ore absent in 15 per cent of the cases I i per cent ther was difficulty in reallowing E idence of thyrotoxicosis as found in 25 8 per cent of the men nd 44 per cent of the omen. In omen, therefore the tome symptoms are most prominent and is men, the mechanical

Inches (Z)

De Overvain, F The Pathelogic Physiciaty of the Different Varieties of Golter and Their Influence on the Bleed (7er pathologischen Physiologie der verschiedenen kropfatten und fürer Finnekung uf das beologische Verlichten des Blates) Schues, med II knicht 0 3, leit

According t Asher the activ principles of the theroad secretion can be demonstrated in rats by ariations in sensitivity to lack of oxygen. This reaction De Quervu has employed in chaical cases Rate ere fed thyroid gland or injected 1th serion takes from the arm and thoroad cans and then studied ith controls with regard to their reaction decrease in the oxygen supply. This test was made in 9 cives of thyroid disease. When gotter substance obtained from cases of Rasedon disease was fed the sensitivit of the rats t deficiency in ox) gen was greath increased. The other forms of gotter caused decrease

A certum agreement as found bet een the belogical acts ity and the percentage and absolut sodine content of the thyroid tisme Venous blood from the thyroid shows the same active effect as the substance but in less degree and cooks blood from the arm is still less effects Thus is activ in the common colloidal gotter although chancal sures of hyperthyroidism are bacat, hile in the adenomatous goster its acti ity is almost ail and in cretims t is negative. Accordingly colloidal grater may be transition stage t Basedow gotter and the results of the experiments on rats were parallel with the respiratory based metaboham is the decrease in the onlyin requirement of rate caused by the blood serum from the arms of certain cretin anot be explained by the stimulated action of the thyroid gland alone an atitoxic function mu t LOEYK (Z) be assumed in addition

Retriin C. The Paresitic Filology of Federale Confee (for purantzeren Aetsologie des endermischen Kropfen) Mitt. d. Gerergeb d. Med. Chir. 923 214 34

Merk has reported observations from which he concluded that endenue gotter is due to a parasit He described spores ha ang the shape of five or ax syled pyramid with a depression surrounded by ups A considerable number of these spores were found in spare uses. Merk described also so-eather! ru t cells hick contained strongly refracting gran ules and rest ball I three cases Merk found on lake cells with membrane and a sht shaped opening He concluded that these three forms represented

the cycle of an animal organism a protozoon Regelia does not accept this theory. The porce he believes are damaged red blood corrusties Thus sumption be bases on the fact that they re found only in brown in the aid that they may be persent also us other conditions such for example a or state crists in which harmonthages infarction ha occurred following torsion of the pedicle. Wegelin dal not observe spore sace. He assumes that those seen by Merk 'ere gland outs with enclosed hru Leu en throcytes. North rust rells are not They are desquimated. new being will know partially I tis degenerated epithelia com mana erythrocyte definiu which gradually are turning int harmonderin. The granules are lipset boilers eard tuned with scarlet red and ownic sold runt bills had their onto in rethrocites buch ere bearbed by ph goeston. Wegelin as never able t find the on like cell described b Week from their size a ga be Merk he a sumes that they ere not single cell but an entire follole with a membran propess. Inflicies a th such a mem it T) to total in admoral podes but of is the normal throad. The the fact that the es ly tage if endersie gouorani 🐠 diff w h peopless of the gland to se and that the crat m h h Merk h and the tructures he described th do reed rode form two and famoustage witer up of the gland to on in retrograde procesure mik is improbible that these are the carpets of poster. TATILITIA (Z)

Varior D The Presention and Treatment of Mentife Guller 1 of M J 0 3 Ett 45

(101 1111) 11 10 of the setter of the stand T Ihair the abreoft sensited their sporada a f where I or thatme are or ar lo or a large errup I denoted I related to help to cor and his product to and manthema are the r ron et ? - Concer at executed

nature of this condition we know only that it is highly complex disturbance of functional interaction of many organ. It occurs spontaneously onl ! m p is not markedly associated the district and is most frequent in the more highly developed races

Simple gotter may occur anywhere but is rare t the sea coast. It is ery frequent in the endemic gotter regions in which the soil w 4 depos ted for the most part by the melting ice of the last glacial period The plumate cause of simple gotter 1 unknown The immediate cause is a descrete; of the todane store of the thiroul due probably to the lack of soline in water. The deficiency ma be relative or absolute. It leads to metabolic dist rhances and then to compensators hypertrophy. The relation of the ther glands such as the drenals and arx glands must also be considered. The conception that gotter is due to a fection must be abandoned but turing of bacterial or other origin sometimes play a file. The stimuli bechinitiat the growth of let il rest into denormal and the growth of normal tissue are probably the same. At first there is a d crease of colloid with hypertrophy of the cells later there is much colloid. The anatomical changes ary depending upon the species of animal. The decrease in the rodine in the gland precedes h Territophy and h perplasia. If the store is maintained hove o a per cent the cha ges do not take place. Other experuscatal facts concerning sodine and gotter are

discussed breen Extensive work by 31 not ad Rimball has by n that from 60 to 10 mgm of colume gr en in any form or manner t ace a carre sufficient to prevent simple goter Manae believes it is best administered in the form of sodued salt. In young person, with recent unioneh out the first. Then goter soduse h etically descented thyroid is bett than foding in both prevention an I treatment but practically is too da ecrous. Marine mer it in treating long standing gotters as the type does not absorb ader treatment with sodine. He go es i gra of des wated the road in drivided doses over a period of t weeks mit then countered the road theorine by es ing 15 t 3

cm of the average of h droodic acted duty. The tre tment is repeat dinker H The darger of grandine or the routing diented

amount to chiltren and a lelescent i usuall acebgible but in the cases of adults there is a possibelt of geravating an ophthalms gotter or prodiscret its a milrome in cert in susceptible persons I ration in the susceptible to of different person terrier desecuted throad dangerous for general use Thirmust or ad reserved many divide nearest over desicated thyroid John as rare in Hanne's expenses (5 fer cent in 2 200 cases) and in his per's cases (hich one piece lodged fats) it enturely absent

sup their driefips not composts duning teral il deleverer pregnance and inciation A tractical bomat it The prevention in children shou I be a pu be lealth m a ure carried out through

the schools under methcal supervision. The prevention of gotter means the prevention not only of sample gotter but also of conditions secondary to it such as cretimism mutism, libocy certain adenometa. and certain cases of exophthalmic soiter

I VOST IPDOPEUR V D

Grier G. W. X Ray and Radium Treatment of Golter Attack H J . L rin. 1 6

Only cases of hyperthyroldson, bould be et en radiation treatment as the alor of this therapy de nends upon the nower of the ris t Inhibit or abolish secretors function or 1 destroy secreting rells. In the absence of h perth roldism, radiation is contra indicated as it all reduce normally functioning stat of hypofunction Moreover as it loes not greatly decrease the size of the gland-destroved cells becar repl ced by fibrons turne-no

countie effect is obtained It is obvious that the diagnous of the presence of hyperth roldism is of prime importance. In the alsence of rophthalmos this is not alw a carr Since her outness is common in the sick, and since throad alugement is not an essential characteratic of hyperthyroidism, tachy cardia is the only depend-hie cardinal symptom. A simber of misor ymptores most be be taken but consideration. The latter oclude headache calacte loss of energy deepleaners, depression, disputes, tainst tion, di gest; disturbances, professe as eating and the assocration of a good appet to with eight loss. As anxious look is very constant. Grier has found the hasal metabolism test of great and in the diagnosis

A small percentage of adolescent guiters are accompanied by hyperthyrodism, and although re rovery often follows medical treatment amount of \ ray instment combined with by gienic measures effects a cure in 00 per cent of the

CHICS

In cases in hich exophthalmos and gotter are either jointle or individually slight or absent but the hyperthyroid syndrome and an increased break metabolic rate are present an examination should be made for such defects as discused topuls and teeth and an logury made as to the patients h bits and aypene The author has seen recovery follow the removal of the tomals. If believes that hyper thy roldism without golder is due t chronic infection or irritation, and that exceptibalmic golter is tinct cutity due t abock, orry, etc. If the tomils are diseased but tomillectomy is contra indicated, the topesh and thyrord may be rach ted at the game time When probable exciting came of hyperthy readure has been removed in case athout goster radiotherapy is the treatment of choice

The crage ell-established case of except halmic gotter may be treated by radiotherapy usually with good results, but surgery as preferable if there are pressure ymptoms or if the patient cannot afford t m a the time accessary for radiation therapy if his lack of intelligence or home conditions make proper hypene impossible or if he is convinced that surgery

is his only hope and therefore will not submit to protracted treatment

Hyperthyroldism superimposed on sample solter can be controlled by radiation, but as the gotter is not reduced, operation is preferable. Operation is preferable also in cases of hyperfunctioning intra

thoracic scater especially I there is presente

symptoms Greet uses one half allia erythems dose and poses one lobe t sitting. The other lobe he treats after a week. After a two-week interval he repeats the process. The isthmus and thumus areas are not treated. Several months are required for the condition t Intern t pormal. The reduction treat ment must be supplemented by careful regulation of the pritient a habita and hymene. The ray used are of a penetration corresponding to our parallel gan and are filtered through 6 rom of sluminum Oul the gumma rays of radium re employed. The radium is placed in from the skin. The author be heres that the action of the Y ray and radium is identical. In cases of severe hyperthyrox lism care must be taken not to agera at the condition his go log too large dose of radium. On count of the danger of secondary skin changes radiation should not be continued sadefinitely. If no decided minor ement is above clinically or indicated by the basal metabolum after six months, operation should be performed. If there is slight improvement, radia tion may be continued t long intervals and hyperic treatment permated in until the condition returns to normal. Grier uses no medicine whatever in confunction ith radiotherapy. Whenever he tried soding or thyroid extract it made the condition some. F Arm T H'Docume, M D

Waterworth, S. J., Cole L. G., Frazier C. H. and Others Discussion of Symposium on Guiter Affected M J 9 3 EXTL, 5 9

Cour stated that he I wored smaller doses of the \-ray than have been used in the past, and raised the exection regarding many caused by the ra-t the parathyreids and the recurrent larvageal zerves He suggested that tetany may result from disturb ance of the circulation after highlion of the inferior the road acteries. He recommended intravenous cal come treatment for tetany and at ted that before thorough fars neval examin tion abould acera Use be made

France upped hazal metabolism tests to differen trate the types of gotter. He never performs primary thyrodectomy in a case the metabolic rate bove to but al ye performs it when the rat is under so If approves of Greet view on Vra-treatment Ifa holds that usually there is less bassed in double bigation than ungle lightens and in double lobertomy than ungle lobertomy

NEW COMET reported the relief of a) approach by the X-ray when operation failed II stated that he is, ors the dosage outlined by Grier and recommends radium for very irritable cases. H believes that is selected cases rachation may be tried before opera

tion. As the correction of eyestrain, constipution, etc may rehere all symptoms, he studies every case subjected to radiation as carefully as though it was

to be operated upon WALTER RECEIPT emphasized the importance of focal infection and stated that the removal of foci will often cause the disappearance of the entire gotter syndrome. If questioned the advisability of calling

the thermid enlargement of adolescence a gotter Ropert recommended bess! metabolum tests He has had good results in cases sent to the roent sencioust for treatment. H stated that if the

metabolic rate is high, the radiation should be preceded by rest in bed and dietary treatment Continue called attention to the hyperamic skin of

exophthalmic gotter which will not stand strong Vrsy doses Only experts should handle these cuci

MARIYE expressed the belief that in exophthalmic easter the thereod is involved only secondarily the primary stimulus lying outside of t, probably in the field of disturbed inter relation of sex and para-sex glands with the thyroid He stated that at tweent the best method we have to control excepthalmic gotter consists in depressing the metabolic rate by partial thyroidectomy but that this is crude and attacks the problem at the wrong end. He views exophthalmic mater and toxic adenous as different phases of the same condition, it being largely a question of the age at which they develop admomata become torus at about the time of the menopause, but the vast majority of denomata are not amociated at any time with tonic symptoms Simple gotter a decreasing, but exophthalmic sorter

but of the latter difficult and poorly understood For pointed out that denomatous gotters, even those ithout to us symptoms, seem to play rôle in causing my orardial changes. Other uthorities have shown relationship between nodular gotters and my ocurditis. Patients who have had ligations or rangle lobectomy must be tched as they all suffer a relapse necessitating a more complete operation

as on the increase. Prevention of the former is easy.

Gammatated that radiation does not destroy but causes regression of the thyroid and perhaps has the same effect upon the parathyroids. As nerves are very resistant t the 1 ray the recurrent perve is not endangered FRANCE T H'DOUBLES, M D

Fost, H L The Surgical Treatment of Golter AMERICAL J 9 3, TXVI, 903

The author gives brack review of the development of present day theories as to the physiology and pathology of the thyroid gland and as to the cause prophylams, and treatment of gotter

H is convinced that the proper treatment for the large nodular so-called denomatous and cystic goaters of adult his is surgical because they are unnightly and annoying, emberrane resperation and deglutation, and cause degenerative changes in the cardiovascular system. The diffuse colloid gotters of adolescence should usually be given medical

treatment (sodine and thyroxfn) In some cases. however this falls and causes pervousness and loss

of weight

Cases of hyperthyroldism, whether due to a hyper functioning adenous or excessive gland secretion produced in the hyperplastic and hyperactive acid of an otherwise normal gland, have one feature in common, namely an increased basal metabolic rate Hyperthyroidem may be amounted with colloid mater collord adenomators gotter, multiple desenerative adenomatous gotters, and diffuse parenchymatous hyperplastic so ter Hamorrhage, inflammation, and calcification are no more common to the thyroid than to other turnes. The treatment of hyperthyroldism should be surpical Experience and sudement as to the type and time of operation are of the greatest importance. In all but the moderately toxic cases, the multiple-stage plan of treatment is dvisable, ligation of one superior pole herer followed in from four to mx days by hextion of the other pole Pountily the inferior poles are lasted next this being followed by a one- or twostage resection of the gland

The author protests against the loss of valuable time through useless medication in cases of hyper thyroldism, believing that such therapeutic measures are instituble only as adminets to surgery. In the preliminary treatment of severe toxic cases, the V ray and radium are valuable, and in skilled hands may rival surgery but their effect is slow and the

probability of relapse is great

Many patients have been operated upon for hyper thyroidism when the symptoms were those of effort syndrome, disordered heart action or neurasthenia. but, conversely greater number of cases of hyper thyroidum have been misdiagnosed and allowed to go untreated The author attrib tes the prevailing conferron in discrease to the placing of reliance on the Goetsch and other tests instead of upon the basel metaboham and judgment based on experience FRANCIS T H'DOUBLES M' D

De Quermin, F Protection of the Parathyroid

Glands (Ueber den Schutz der Epsthell comperchen) Bost His Chr 9 3, COT DE, 197 The parathyroid glands are endangered by too

extensive removal I the posterior surface of the theroad lobes and by ligation of the inferior theroad artery or its branches close to the capsule of the gland in the region of the arterial branches supplying the parathyroids. This was the main reason why de-Ouervain some time ago emphasized the importance of preserving the posterior capsule in the region of the endangered sone, namely the cervical connective turue De Quervain experiments led to the liga tion of the inferior artery outside of the capenle. In 2,203 cases treated by de Quervain there was

no case of marked tetany Slight functional disturbances of the parathyroids were noted in only there cases, which were among the 40 per cent of the total number operated upon on both sides during the last few years MARGELI (Z)

Ujbelyi, J. The Questien of Drainage After Thyroidectomy (Du Drainagefrage bei Stromektome) Arch f blis Chr. 92 Ctm. 5

The author discusses the advisability of drainage after thyrodectomy on the basis of 323 cases treated t the Bler chine. H arrives at the following

conclusions

Drainage cannot prevent the formation of hermatoma, the accumulation of secretary or the paraney infection, but it will prevent the dissemination of infection O as the other hand t readily leads to the formation of firstle and secondary infection, prolongs the beging, and queen an unaginally sear. The undrained cases showed no greater postoperative fever than the drained cases.

Porter C. A. An Analysis of My End-Results in Thyroid Surgery Surg Gyec & Obs. 19 3 22274.6

The author duides has sense of cases into t groups, those of malignant discuss of the thyroid and those of tone goter. He has not analyzed his non tonic goters, but stares that he has had go ith but one death, this fatility being due to preumona and hemorrhant neithment.

There have been mactern cases of maintains the case One patient whose conduction is adaptoned as malignant is made to the conduction in the case of th

operation and X-ray trantment.

In case of excapitalited adenous which has under gone malagnant depressation the prognosas for cure of knyouthe, buy is been the immore has become fixed it the traches and has involved the recurrent laryaged proven it is particularly and worlder. The utbor recommends radical operation of the X-ray amminishment of the tracking of the properties of the probability of the properties of the probability of the properties of the probability of the properties of the properties of the probability of the properties of the p

or indust abox. The unbox' sense of tone gotten comprised request. The mornity based on the number of particular that may be about a sub-standing discount of the contract of the particular that the desired particular that the contract of the contract of particular that the contract of the contract of

by decreased. The author cites case of exophihalmin goiler and torse deacmata in which Y-ray treatment existed considerable improvement or cure as judged by the basel metabobe rate. After preliminary rest, with or without X-ray treatment, the graded operation is best—highino or highinous, hemithyroadectionty or subtout thy readectomy.

I the so4 cases analyzed there were twenty four deaths in the hospital and ains deaths after discharge. The author reviews these cases in detail with comment as to possible errors, especially that of donne too much t one time Of the hospital deaths, thurteen were due t hyperthyroidens, this being more fragment cause early in the series air were due to pneumona or brunchitis to to pul monary emboh, one to tetany one to status lymphaticus and one to shoel. The nine deaths occur ring after ducharge were due to various causes hyperthyroidism was responsible in only one case The remaining cases heard from (47)-excluding twenty-six treated recently-are classified as unimproved, improved but not cured, enred with mental symptoms, cured the cardiac symptoms, and cured. A number of the cases are described. best index of cure as permanent reduction of the hazal metabolism to normal

Forter finds from his cases that though ligation and hensith readectomy may often effect cure, the ultimate subtotal thyrodectomy most quickly and permanently reduces the basal metabolam t nor mal. The posthous of hyperthyrodum require

long after trestment. In Partie, cases there have been no severe second any hemorrhages despite some very bloody operations. A careful preliminarly examination of the large as a majorative to perfect the resignary been despited by the perfect of the resignary observed in personal despite the perfect of the perfect of the second than in the later operations. Britiseral prairies and the second though the perfect of the second through the perfect of the total control of the perfect of

trackeotomy. Infection is more continon in drained than in undrained wounds. Local anesthesis seems it perdapose to infection. Potent perfects deep drainage through the small of the anomals that the perturbation of the anomals are the state of the thread number. Fine all is used the state of the extraction of the small perfect of the state of the thread number. Fine all is used the state of the state of the small perfect of the state of the state of the thread of the small perfect in the state of the small perturbation of the small perfect of the small person of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the small perfect of the small person of the small perfect of the sm

Mayo, C H and Southby W H. The Mortality Rate Following Operations on the Thyrold Clered J Au H An 9 5 hrx 89

At the M ye Chine, during the year of the were miestern deaths following ods operations on 1,477 patients for diseases of the thyroid gland, making the operation meetably of persons. This receives method of presenting statistics on gotter—not only fs bit reveal the truth but con trush facts which, when brought with ye more seen that the property of the property of

detailed t dy prove to be of great value. Sta tistics on surgery for genter should be carefully and accurately analyzed, and the results presented for

each disease on the basis of the number of cases An accurat basal metabolic rate is an index of the intensity of the disease in both exophthalmic goster and adenomatous goater with hyperthyroidam and therefore, in confunction a th other factors, is of help in the selection of the best time for operation and the best type of surgical procedure besal metabolism is of even more importance as

aid in the establishment of correct differential diagnous of the various thyroid diseases. As result of its use many unnecessary and sometimes barmful

operations are avoided

In this report all patients who died while under observation in Rochester immediately after surgical intervention on the thyroid gland are classified as having died from surgical procedures, regardless of the cause of death. The surgical mortality by case according t Plummer classificatio of thyroid ducates was adenomatous gofter without hyper thyroidene, 15 per cent denomatous goater with hyperthyrodism 3 48 per cent and exophthalmic gotter 1 00 per cent. The mortality rat for thy rusdectomy in exophthalmic gotter is 96 per cent The surgical mortality is based on the combined work of eacht surrecous

Keerd, L. and Hyman, H. T. Studies of Orares Syndrems and the Involuntary Nerrous System. II. The Chincal Manifestations of De-turbances of the Involuntary Nervous System (Autonomic Imbalance) Am J M Sc City ()

By way of introduction the authors efer t the phylogeny and embryology of the involuntary nerv ous system, the anatomical and physiological differ ences between the m ofuntary and voluntary nerv ous system, the thoraco lumber and bulbo sacral subdivisions of the involuntary nervous system, and the factors which maintain the tomotty of the involuntary nervous matem. Their report deals with cases in which the symptoms can be ascribed to disturbances in the realm of the in oluntary nervous system. These symptoms they divide int. three groups. The first group includes those which are objective and due to disturbance of the function of an organ in luch no lesson can be demonstrated by the most painstaking clinical examination second group differs only in that the manifestations are subjective. In the third group are such symp-toms as asthems and tremor. The syndrome presented by the amociation of these symptoms the authors apply the term autonomic imbalance In t they include conditions ordinarily called lar val hyperthyroidsm, the forme fruite hyper thyroschun, Basedoword, suprarenal insufficiency etc Eighty six cases were studied. In none was there definit or constant elevation of the basel metabolum, but utonomic imbalance was present Ile at

The factors that predispose t this syndrom a c at present unknown. As exciting causes, sex epochs focal infections, and psychic insult are mentioned among the subjective symptoms are palpitation dysprace, headache, insomnia, and loss of weight a hile the objective symptoms and de diarrhora, eye signs, gastric duturbs ces, menstrual disturbances, sweating, vasomotor instability mental disturbances tachy cardia, irregularities of cardiac action, and tremor Reference is made also to phenomena that may be inferred t be sympathomimetic since they are frequently present in autonomic imbalance and are accentuated by drenalin Such are nervous ness, asthems, gotter and elevation of the basal metabolism Interesting also is the reference to associated conditions, the correlation of symptoms,

d semutiveness to drugs. A table shows the responses to the subcutaneous injection of stropm and adrenalm in t groups of normal persons" (medical students and convalescent patients). Of these about 22 per cent reacted to atropan and 30 per cent reacted to adrenatin. The most constant symptoms observed in these patients were tachycardia and goster without fever or change in the basal metab-

obsm

Unless the exciting cause I the imbalance can be removed, the results are extremely discouraging The condition usually runs a long course The important points brought out in the article

are summarized as follows A study of the clinical manufestations of

autonomic imbalance is presented Such instability of the involuntary nervous system probably constitutes a diathesis

3 Focal infection, psychic trauma, and the sex epochs accentuat the syndrome

The symptoms are trainely similar to those of Graves syndrome Autonomic imbalance may

co-exist with myrordema 5 Local manifestations in a single organ, such as the stomach or heart, may attract attention to that

organ astead of to the general disturbance of the in cluntery nervous system 6 Hyperplana of the thyroid gland is very fre

quently associated with the syndrome. It is more pt t be secondary than camative

7 In autonomic imbalance there is never a distract and contumous elevation of the basal metaboham This constitutes an important difference from Graves syndrome

5 The recognition of chinical utonomic imbelance is simple. More important, however is the enclusion of Graves' syndrome and the determina tion of the excrime cause of the imbalance

9 There are no scientific data to prove the parties pation of the ducties glands in the production of

the syndrome While persons with utonomic imbalance are

usually sensitive to atropin and adrenalin, this drug seminiveness may be present in the absence of autonomic imbalance. These facts may be explained on a pharmacological besis

17 Clear cut subgrouping of such persons into varyotosic and ay impathicatoric cannot be made clusically until defiate knowledge regarding the toms of the in oluntary nervous system has been

gained
Autonomic imbalance can rarely be arrested
permanently. Usually the symptoms may be alleviated, but the diathesia persists

13. Hormone therapy is 1thout foundation and is uncless E C Rosersons, 3f D

Edited, L. The X-Ray Treatment of Basedow's Disease (Frishrungen seber die Rocktgentherapie ber Morton Basedow) – Ferisie – d. Geb. d. Escalgratius – 9.3 xxx. 7

Of thirty of the cases of enophth time genter which were treated in the V ray by the subtor during the period from grs to 19 g, kwenty fire showed definit. Basedow syndroms, while five were of the foreis fruste type. Thirty per cent of the patients were rendered almost fire from a symptoms, 4,5 per cent were benefited, so per cent were not benefited or their and 6? per cent developed a recurrence

Of first unpertaine is judging the results it by publishophylly changed persholism indicated by the body wright. Next, the vasomotor disterbiance must be take into consideration (tackycarba enlargement of the beart, dustrices, restit) and infinity the nervous un protous, such as resileances, etc. Of less direct importance are the gotter crops, timinos, and irremo. These visible phenomenarous treatment remo. The visible phenomenarous treatment come and district irrestreent in selftion, but the author behaves that the resulting treatment was cheefly responsible for the cure. In must of the cases dustrict import ensure occurred

whin four months
It is interesting to compare these cases — it is those
given surposal treatment. An advantage of surgical
treatment, which gives about the same results as
roomigen treatment, is that it effects a cure more
gridely. Thus not explesh, however, by the changer
of postoperative and the contract of postoperative and the contract of
postoperative and the contract of the contract
to the contract of the contract of the contract
to the contract of the contract of the contract
the cases, is still unerplained. As unasily these reserver cases, it is probable that the explanation must

be based on the still not saffecently understood pathogenesis of the disease and the frequent difficulty in the clusical differentiation of the uncomplicated Basedow syndrome. Other causes cited, such as the duration of the disease, differences in this technique of ridution, unde smalle hang conditions, sensor carbate changes, etc. have not been proved. As objections to routige a treatment advanced by you Excluder; and Mayo is that it causes adhenous between the gland and the surrounding timeses between the gland and the surrounding timeses between the pulsary of the control of the control of the surrounding timeses. The surrounding timeses between the gland and the surrounding timeses between the gland and the surrounding timeses. In the other

VOLUE VEDT (Z)

Fried C. The Roentgen-Ray Treatment of Basedew' Disease (Ucher Roentgesbehandlung des Horbus Basedow) Destarbe Zische f Cher 51 dixxv., 51

In thereon cases the practicability of restriger my treatment was proved. After the condension of the treatment the patients were re-examined at regular monthly intervals. The technique used was essentially that recommended by hordentoit and exceeding the recommended by hordentoit and exceeding terminal \$1. Is exceeding page, and distance of 3 cm there was given t the thy rad distance of 3 cm there was given t the thy rad distance of 3 cm there was given t the thy rad distance of 3 cm. there was given the thy rad distance of 3 cm. there was given the they are conducted in the properties of the second time of forms of alumnount were employed. Stort of the period of their months.

Considerable opportunent remitted is all of the cases. The subjective complaints of fear and in somisi disappeared early but certain tritability of the circulatory system presented longer Foll substity is ork returned. Objectively improvement as indicated by slowing of the poles, consistent of tremost, gain in weight, and the condition of the bood. The increased kemoglobic content to browned many of the lexilograms, and the chappear area of the lexipological series will see the content of the condition of the lexilograms, and the chappear sace of the lexipological series all worthy of not

The results justify more extensive involugations with radiation Europe (Z)

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS; CRANIAL MERVES

Michael J O The Old Head I jury Case. J 4m If 4 9 3 lexx 047

This article is summarized as follows

1 One hundred old head injury cases were studied th special reference to the neurological complications, the probable factors in their production, and the degree of the vocational handicap.

2 Except in cases of penetrating best injury the prognous for life is very favorable (the imme that complications are overcome 5 Freedom from invalidam is uncommon

Fifty three per cent of persons so injured are unable t support themsel es

4 Careful, early treatment Ill do much t

5 Increased intracramal pressure and signs of local irritation re the only indications for surgery of the head in the cuts as well as the chronic case CASE R STITEST M D

Martin, P. and Coshing, H. Primary Gliomata of the Chiarm and Optic Nerves in Their Intraeramal Portion. Arch Optib. 9 3, la., soq.

This studie is concrued with the report of seven tumors, all of them gloomiat which seemed to have organized either in the chairs or the optic nerves adjacent to it. In only one instance, and then because of a co-crustent disorder was the origin and character of the lesson surmode before operation. Though a correct boulding diagnosis of a surprating of the control of the chairs of the continguishment of the control of the chair through pressure was coght:

The a thorn f for the antenor route for exposure of the uprasellar regio. The mortality of these cateoplastic procedures is very low and in the majority of cases they afford an excellent view of the region from in front without damage to the brain

At the tim this article was written the Brigham Hospital series uncluded 56 biatologically verified intracramal tumors. Of these, 345 (4 7 per cent) were gloomate of various types and regions. The seven chairmal tumors included in this report there fore represent only per cent. I the 345 gloomate and only of 8, per cent of all verified tumors.

The 13 weifed tumors arising from or near the hypophysis and effecting the chasm by direct presents were as follow. In prophysical denomate of all types, 64 cramopharyageal pouch tumors, that endothelomates, thattee interpretamental gluomate, thritees iterationate, three and epidermoid cholesteatomate, two.

In seventy two cases a transfrontal operation was performed for obviously superaillar leaums and the repon of the chians brought into view In determ of these cases the nature of the islosi was not determined. The shirty-one cases which were that objecting verified included the enty-even tumors of the cranlophary negal proach, nase suprassillar endotheliomata, eight by polypseal adenomates, five admonators cysts, five chiamal ghomata, three cases of arathoditus circumscripts, two epidermal cholertestomata, and two ghomats of the third venturely.

The uthors give the histories of five cases of chasmal ghoms found t operation and of two others which were first discovered at autopsy. The report includes forty two illustrations

Except in the presence of obvious evidences of on Recklinghausen's duesse the differential diagnous must be based chiefly upon the findings of the ophthalmoscope the perimeter and the X-ray

All f the seven cases reported aboved an dynamic optic strophyr and in five there was no doubt that it was primary as would be expected from a lesson of any sort whatswere which compresses the nerves or chasm. So far as noted, the ophthalmoscopic picture of these conditions is indistinguishable.

In all instances except the last the loss of vision had been comparatively rapid and progressive, so that by the time the patient cause under observations that desirated to blunders in one eyes it seed. One patient was totally blund on admission, and two of the young children, in whom the registration of vision it acuty was not possible had apparently benithed under the properties and pressive as the contract of the properties of the properties when carefully was recorded, vision was lost to one eye and greatly was recorded, vision was lost to one eye and greatly mappared in the other. Marked dimmution of vision in the less affected eye seems to be a characteristic of cases of chausal timory.

Permetric observations which were regarded as reliable were possible in only three cases. In all of these there was defect in the temporal half of the field, but in no instrumed did the hemilinopsis above the clean vertical basection which is so often char

acteristic of pitultary tumor

A tendency to adjoistly was postured in four of the patients a slight degree of polymin and polydrus in two of them, normalences and lead notydrus in two of them, normalences and lead notytics, and less or lack of hinactes in two Is more of the patients, however were these symptoms such cently evident to leading the designation of subposgential dystrophy which characterizes advanced gratical or picturary insufficiency.

Comparative differential points between the chisamal and the more common variety of suprasellar tumors arising from Rathke's pouch are as follows 313

Term of the Channel

Printery spik attempty scho ty los in both eyes

Presented the Belt marriaged le manual ce

The microscopic picture in the seven cases was unmistakably that of glioms. The authors give a complet description with each case report. As is true of ghomata ches here in the brain, there was counderable difference not only in the architecture

but also in the structure of the several tumors Chomet In design ted as those tomors of the central nervous avetem luch, with proper selective

states, show gite fibrile

Whether complet removal of the chiasm involved in one of these leaons would be nutified if the growth happened t be exposed at an early stage of the process and before it had spread is doubt ful. The authors express this contaon in state of the favorable progresses given by ophthalmic sur cases in buch a large ghoma has been removed with the orbital portion of the nerve. In the present stage of our understa ding of the therapeutic possibilities of oceo radiation treatment with radium or the \ ray though fa from encourage ing is probably the best hope but final judgment on these natters must be deterred

The anthors conclusions are as follows

"One consideration "ertainly will be of interest t ophthalmologests, namely that we have here an ther explanation for some of the obscure cases of primary optic atrophy to often attributed to a retrobulher nountri. They will promptly recognize that we have dealt in this paper a the lesson already familiar to them though largely when the process of tumefaction within one orbit has reached such size th t exophth limes results

It is quite possible that w will all, ophthalmol ogusta, neurologusta, and neuro surgeous, come t recognize these lesions th sufficient accuracy to perm t us either to word operation altogether or t least to know better th what sort of a lesson we will have to deal before to surgical exposure

Certainly a primary trophy in cases of gen eraberd neurofibromatoms or even those with shight manufestations of the malady all rest under suspe com of having ghomstons process in the chasen or is discent nerves Suspicion will be aroused also when there is an obvious swelling of an atrophic nery bead a thout evidence of increased intra cranual tension

B t even in the absence of these tell tales of the process, when primary strophy of the herves in young persons is associated with the peculiar sellet deformation which has been described, and without the shadows usually cast by the more common tumors of this region is childhood, one may well consider the possibility that the symptoms are due to a premary change of the chiesen

CARL R Shower M.D.

Illurichemeyer, C. Resection of the Choroid Flexus in Severe Unflatural I ternal ID-drocephalos Tranmatic Ventricle Cyst (Resch tron des Piccon choroxicus bei expester bockeradaren H) drocephales interpes transmittener Ventrael crote) And f Mrs Che o a cord 24

The theory that the cerebrogunal fluid has its ottem principally if not exclusively in the the choroad piezus of the ventracles of the brain is extense in probability Dandy applied t in the treatment of internal by drocephalus, more in the cases of four children he inched the brain and heated and resected the tels thoroides where it makes its exit from the forames of Monro The author also has had an opportunity to remove this pleans and beheres from his three weeks observation of the case that he is tustified in drawing conclusions recarding its influence upon the formation of cerebromesal

found The nations, who was would of age, was brought the hospital on account of endensy. This child had been delivered with instruments after three day of difficult labor and suffered an attack of convaluons on the first day of life. One yes later the convulsions returned, continued longer and in creased in several Y There as no noteworthy mental defect. The left hand hung kmp and useless. The left (not was maintained in a slightly speake editings position. The diagnosis was infantile speakle bemi-

plegra An esteoplestic trephinetion was done in the right parietal and temporal region under the assumption that the condition was traumatic cyst in the cen-tral region. The dura, which did not pulsate showed

contracted area. When it was opened, a blunk translucent cyst was revealed. This was increed after the removal of watery find by puncture There as then exposed cavity, 7 cm deep, 7 cm wide, and cm long, which had smooth walts In the center of the base of this cavity was the foramen of Monro from which mused the plexes, floating free in corebroganal fixed. Therefore the cyst was the

disted lateral ventricle A portion of the skull the caratracial area to the dura, and portion of the thra cyst wall ere excised and the wound as tightly closed. The eye was found t be connected with the subcutaneous tursus Resorption of the excelerospinal find was manufacted

by ordems of the soft parts around the wound and the eyelida, but this soon disappeared. Subsequently the cavity refilled, the bony covering being lifted im A cerebrosomal find fatule was formed in the suture line. On account of the marked increase in pressure lumber puncture became necessary. Lum her pressure finally increased to 360 mm of water and there was marked bulging of the skull.

As the primit's conductor became continuously overtoring the assumed that the secretion of the secretion of the secretion of the corad plerus and that a valve cleame had occurred between the venticles and lumbar space. There fore at the end of six days the old wound was re opened, the skull flap turned b ck, and the plexus, which as afferent at the base if the brain cavity.

which as superme at the base I the branch cavity as lighted at its exit from the foramen of Monro and removed. Between the stull and the epicrani um tunnel was formed through the soft parts behind the right ear and tamponed with iodoform

After the operation there was marked extens if the face and under region of the wound. The tampon was therefore recurred and the ound and are tracked down and. The patients general condition then became remarkably good, but on the twenty of the day of the face of the fa

Autopsy showed principally in the frontal region of the right hemisphere a defect as large as a fist (the enlarged lateral ventricle). The frontal convol-

tons were flattened and thunsed, the islands of Reil ere completely destroyed, and the lower portions of both central convolvations were similarly affected. The large trank gaughs—t the base of the cyst could not be recognized—The resected plexus appeared normal

A second opportunity for plexus resectso offered in case of congenital hydrocephalus

The patient was a poorty developed infant 5 months old The curomiferce of the head sas 50 cm. Cerebrospand find as removed by puncture does first on the left and as of lew days later the right said. When trephinations was performed in the right temporal report the protonting brill brill. Spen and ducharged cerebrospand find in stream. The right lateral entirels we reormously dilated. The chorood plexus as legisled and recovered.

Death occurred seven days after the operation. A topsy revealed dilatation of the fourth ventucle and status thruscolymphaticus. The plears was ery large and thick and aboved enormous dilatation of the vensels even of the capillaries. At several points there era blood lacunae. Statismics (2)

Cohn, E. Gummata of the Hypephysis (Genunca der Hypophyse) Arch f path Anal 9 3, ccsl, 45

The author reports case of gummatous degeners ton of the h pophysis involving the infundbulum and the optic chaism and originating in the floor of the third entired. The patient was 4-yy-car-old woms who showed the chimical symptoms of tertains.

hea, later the initial stage of adipose gential dystrophy and finally hypothysical cacherus, and died following the sudden ppearance of cerebral symptoms: A topsy showed that all of the posterior lobe and most of the antenor lobe of the hypothysis had been destroyed by a philitic granulation tissue with miliary caseous pummats.

This is the first case of hypophysical gumma which adiposo genital distrophy on a syphilitic basis was diagnosed chincally and confirmed by antionsy

The inhor revies the literature of the discusdiscussing twenty-one cases, serenteen of acquired and four of congenital replains. Females are affected much more frequently than males, probably became of the burden placed upon the hypothysisduring pregnancy. The anterior lobe appears to be particularly susceptible to the syphilitic virus Hypoth seal gummats range in size from that of a small near to that of a wall.

The chinical diagnosis of his pophysical has is based upon the presence of acroscopilly admonstrated distributy and hypophysical cachesta. Bit the two former syndromes cannot be considered decise as plantia unoverseen of the terior lobe in a plantia unoverseen of the terior lobe in the form of an econophile adenoma which causes both an increase in the internal secretion and eroscop of the ptimitary fossa. The adiposo genital dystroph is generally as in the case reported by Conqueckly overtaken by the hypophysical cachesia caused by the rapidly advantage destruction of the hypophysis and therefore is of significance only in the early stages.

Levison L A and Alter F W t Glioma of the Optic Thelamus. Am J Ophila 9 3 3s vi, 468

Lermon and Alter present very complete case report with rule abova in the gross and microscopic anatomy of the tumor and one field of vision. The patient was man 65 vers old. The points of particular interest in the case were (1) early semicroscopic retailins of one eye follows disaddenly semicroscopic retailins of one eye follows disaddenly ophthalmoglepa of one of the control of the control ophthalmoglepa of one of the control ophthalmoglepa of th

Burhans, C. W., and Gerstenberger II J: In ternal Hamorrhagic Pachymeningitis in Infancy Report of Free Cases. J Am II Air 923 http.604

Internal hemorrhage patch mendagits occurring mindany cannot be considered a rise disease. The authors discuss the various theories distanced regarding its patchogeness and report first fast treated in their one chair within a period of three years. These cases do not been our the contention that infectious, especially syphiles and diphtheria, are custative factors or that so por state of nutrition are constructed.

plays an important ole. The authors behave that in

four of their five cases tranms was a factor The prominent ugns of the disease are retinal

hemorrhages, fontanel puncture revealing bloody or vellow finid in the subdutal space, convulsions, a bulging fontanel, enlargement of the bead, and ness!

discharge

Additional observations were made in two cases which the calcium content of the fluid obtained through the fontanel peneture was determined and found to be decidedly lower than that of the blood serum, whereas the morganic phosphorus content of the fixed and blood serum was practically the Since the results are the same as the figures same armally obtained by determinations on a hole blood. it would seem logical t conclude that the field in these subdural cysts is blood unaltered except for the solution or digestion of all or part of the red blood corpuscies. This conclusion, however is not supported by the amounts of sodium and potassixts, which were the same as in serum, nor by the percentage of protein, which showed great vari-

шп The congulation time and the bleeding time were normal in three cases in which the tests were per-WILLIAM E SMACHERON M D formed

SPINAL CORD AND ITS COVERINGS

Vieta, H. R. Acute Ascending Meningomyelitie Possibly Resulting from Araphanamin Ther any Besten H & S J o 1, cherrym, 305

The case reported by the author seems to fall int the acute spreading my chils group of Colber which is excending in character and associated with definite meningeal involvement. It varied somewhat from other reported cases in its great ramidity of develop-ment and the completeness of the cord in olve ment. A possible etiological factor is suggested in an amphenamin reaction somewhat analogous to encephalitis harmorthapics. The possibility that the case was one of thecal hemorrhage, spreading pohomyelitm, or acute excending polyneuritm seemed to be ruled out by the history ta course, and the monal fluid findings Samer Kare, MD

PERIPREDAL RESVES

Artificial Nerve Branches for the Stookey B Innervation of Paralyzed Muscles Arch Surg 0 1. 14 73

When nerve trunk is injured t level at which important mucular branches are given of the muscles supplied by these branches are usually permanently paralyzed as there remains no path for the conduction of neuranes from the nerve trunk to the muscle. The object of the uthor's research was to find means of forming nery branches arts-

Ecully. A method was found whereby nerve trank could be made t grow nerv branches at any level in its course and t supply any of the muscles which t

supplied formerly. Artificial nerve branches were made by taking a free autogenous nerve transplant. preferably a small cutaneous nerve. The central end of this transplant was sutured into the nervo trank and the dutal end implanted directly into the muscle to be innervated

In selecting the point on the nerve trunk for the secture of the artificial nerve branch, it would not haps be preferable, on general physiological grounds, to choose level near that at which the moscotar

branches came of furnerly

F ve dogs were employed in the author' expen ments The first, small black French poodle, dued at the end of twenty-four days. The nerves on the inner side of the foreleg of the azimal were exposed shows the allow in the usual manner. When the median perve was traced, there seemed to be to branches, one on either ade of the brackial artery These were traced beneath the artery where they waited at the beceps tendos and passed in the three tion taken by the median serve. The dissection of the beceps was done to make sure that no branches entered from the mechan, uluar or musculospiral nerve. The ulner nerve was notated in the middle therd of the sum, and an advantal akin branch, a cm long was freed and cut after a waxed alk suture

had been passed at either end. The same technique was used in the experiments on the four other does. One of these ammals ded and the others are killed a certain number of day

after the beginning of the experiments The author draws the following conclusions from

his work When muscular branches are destroyed and nerve seture is impossible, paralyzed muscle may be

innervated by the formation of an artificial nerve When free perve transplant is sutured to the nerve trunk and the datal end is impleated directly into the greecle, the free nery transplant serves as

conduction path from the serve trank to the mucle

3 An artificial nerve branch may be made for a muscle from nerve trunk which normally supplies the muscle. If this perve trunk is totally destroyed, branch may be made from an adjacent nerve. Thus muscle can be brought under the domain of nerve which does not supply it normally, for example, the

becrue may be expedied by an artificial branch from the musculocutaneous or if the musculocutaneous is destroyed, it may be innervated by an artificial

branch from the ulaar or median nerve

4 Evidence that paralysed minicies may be neurotized by an artificial move branch was shown by electrical stimulation of the artificial nerve branch which resulted in rapid and quick contraction of the muscle, by the normal size and color of the muscle, and by the histologic findings which revealed normal structions in the muscle fibers. The presence of pervs branches and nerve fibers in the muscle thus innervated is conclusive evidence that neurotmation has taken place

Crosce E Britar M D

Heyman, C. H. The Stoffel Operation for Spastic Paralysis. Surg Gyese & Obs. 19 3 XXXVI, 6 3

The value of any operative treatment to the rided of spatic parish or cannot be determined authorit taking into account the degree of associated mental imparament. Whatever the mental conduce, however a good inectional result may render to pattern more merid member of scooty and possibly may cause some mental improvement. The four clinical types—spatic deligent, spatic para plega, spatic para plega, spatic para plega, spatic para present decording scale of mental imparament.

present descending scale of mental imparament. The sthose fives the Tabby etiological class faction of spatic parallysis and reviews the half tabon of, and undextooms for various procedures which have been employed in this constitute, such as tenotomy tendor transplantation, resection of posterior nerve roots, cranial decomprission, the impedien of schools into the nerve, and intra-peraseuml neurotomy. The so-called Stoffel opera tora popula became of its amplicity the exact design possible the slight hielihood of a recurrence of the contracture, and the benne of a sonsequent

distributes of sectation. This opening of the that the cross sectional topography of a nerve is invarying the most officers are arranged in gross boundaries at the perspecty and the muscular destination of given bendle will estuce a flaced paralysis of the corresponding elements of the meade leavant to the remainder in a spatic condition. If the residual systems is concerned to the control of the control of the control of the control of the control estuciated when the neares is extended the equilibrium is the the opposing muscles will be repaired.

The uthor has performed fifty-nine such operations in twenty four cases, employing the median, scatic, obturator and internal popultesi nerves. He reviews th technique of nerve isolation in these four groups of cases and discusses the degree of sectioning necessary on the basis of the degree of spasticity. He concludes that the operation is of greatest value in spatic countractures of the discusses are appared countries.

Brief reports of the twenty-four cases are given P R Brighouser M D

SYMPATRETIC RERVES

Ford R. K. A Note on the Treatment of Chronic Ulceration of the Lower Extremities. Laucet 9 3, co. 1005

Chronic non specific ulceration of the legs and feet is disabling and requires prolonged treatment Increased circulation to the extremity favors healing. Lenche employed arterial sympathectomy in the treatment of Raynaud e shease trophs ulcer etc. Handley obtained the same but more permanent results by injecting aboods into the vesid will

The uthor suggests the use of alcohol injections in all cases of chronic ulceration of the leg t increase the peripheral circulation and promote healing

the perspaceal currents on any promote healing.

A case reported as that of a 5 year-old man who
was admitted to the bospital with chronic ulcers
too of the right ankle and the domain of the right
foot of several months duration. After the ulcers
foot of several months duration. After the ulcers
of the days are to be such all solution for period
the days and the wall is solution for period
common femoral artery was exposed agree in the
common femoral artery was exposed agree
from aneathers and its wall injected in each outnant of is circumference with 5 per cent excause
sol toon, about 0.5 ccm belty need in all. The
dressmap were left undisturbed for four days. At
the end of that time all superficial alcertation had
bested The patient was duckarged cured in two
weeks.

William of Promote Promote Promote Promote Promote Proweeks.

William of Promote Promote Promote Promote Proweeks.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Rowntree, C. Cancer of the Brunst. Best M J 9 J 1, 747

Cancers of the breast constitute one third of all cancers occurring in the female. If an early opers ton is performed, there will be no recurrence in 30 per cent of the cases. In the remaining 70 per cent a well planned radical operation will greatly reliev disconfort and prolong life, but the patient will serve the state of the performance of the perfo

If the results of the treatment of carmonas are in the improved, persons with cancer must consell the physician earlier physicians must be more posture in their diagnosis, and operation must be performed at once by competent surgeon. The latter can be introduced regarding cancer through the medium control of the performed of the performed that the charmonic of the performed that the charmonic of the performed that the performance of the performance and the performed that the performance is the performance and the performance and the performance are performed to the performance are performed

Because cancer of the breast us pauless and harmons as ofference in the early stages, the diagnosas is often delay ed or mused altogether until too late Tary e stage, accelerately a consider the access of the breast are so maintr to one another that implained are made dermon needle foserred in e.g. vay all determine its nature but in most cases the only positive method of differentiating an denoma from carmonna is mirror and the stage of the s

area Of oo of the athor' consecutive anses of breast tumor fifty mise were ensignant and forty one non-influent models and source and past and forty one non-influent models and past and proved other ware. As only fifteen of these on cases revealed mostline, the at thor believes that mastitus as not cause of cancer and does not call for importance of the breast unless there is extraorrecyclic forms of the breast unless there is extraorrecyclic forms.

The proper treatment of breast carenoma as radical removal. As rule the best asserthetic as ether combined with chloroform vapor. I the cases of old or feeble women, local assesthesis to best

Radium is useless in all forms of breast carcinoma and is many other forms of malignancy. In the Nay we hav a valuable means of relieving pain and prolonging lif. In the author opinion, the deep therapy marchanes are little or no better than other nonliges may machines.

P ULW SWEET, MD

TRACHEA, LUNGS, AND PLEURA

Leis, A. Poissonary Embedism Following the Fill ing f a Pistula with Beck's Bismeth Fasts (Langraemboke anch Fatelindung mit Beckischer Wassonpert) Beer Hi Cher 9 J. czrym,

The case reported, which was observed at the hacker time, was that of a woman 4, year old who had been subjected to thyroidectomy seven weeks previously. The cubic continueters of 30 per cent Beck's paste of bismuth carbonate were usjected under modernst pressure int reached fatals after curetting of the tract. The patient immediately collarged.

The X-ray showed emboli in both lungs in the region of the palmonary artery After the fifteenth day these began to disappear. When the patient was discharged on the thirty-eighth day the sh dow in the lung had disappeared almost conpletely.

The author assumes that as a result of the curettage f the fishious tract the past entered the cure, reached the right add of the baset, and from there entered the lesser circulation, where it because lodged. Recovery resulted because only a slight amount of the material as insected.

This case show that in the filling of fistules.

Beck parte must be used with the greatest care.

I jury of the fistulous tract and the use of possible tips should be voded.

Courses (2)

Henser G. J. Lung Abscoon. M encuris Med. 913

From the standpoast of etology long shoroses my be divided into the following groups: () those secondary to tousificationy: () those secondary to the sagration of foreign body () those secondary to unfection processes skewhere: (4) those secondary to ungreat operations: (a) these secondary to being some part operations: (a) these secondary to being some part of the complaint in the three of the complaint in the complaint of the

At present to believed by the majority of general surpress that tonsillectory a the most frequent cause of leag shores. As rule in seck cases the above in who is to the superstion of inferred blood or particles from the tonsile. So and through the blood and lymph streams as the most frequent to the control of the contro

all Students planning to do nose and throat work should have sufficient training in general surgery to make them familiar with surgical pathology

surgical technique, and the control of hemograge A study of the literature indicates that the aspira tion of teeth, kernels of grain, and other foreign bother is a frequent cause of lung abscess. Preven tive measures should be taken against the aspiration of foreign bodies, and those that have been aspirated should be removed promptly. A patient who has aspirated a foreign body should be subjected t bronchoscopic examination as soon as possible

Lung abscesses secondary to infectious processes chewhere, such as liver abacesses, appendicitis, mastorditis, etc. also have their preventive aspect in the w y I early disgnous and prompt treat

Lung abscesses secondary to clean surgical opera tions such as gastro enterostomy hermotomy and thyroidectomy are not rare and are complications matly to be leared. The mechanism of their production is varied. Some are due to the aspiration of saliva or vomities. The besic lesion is either a bro choppermoma or infarct which subsequently under goes aboves formation. Preventive measures in these cases should be directed toward the careful administration of the anesthetic, gentle handling of the turner, and greater ttention to postoperati e treatment

Relatively few cases of lung abscesses are due to malignant disease, stricture and other conditions of the emophagus, and malignancy of the bronchi These primary conditions are very serious and the diagnosis is often made late. Care should be ver

cased in dilating benign lessons of the onophagus Formerly ppeumonia was considered the most frequent cause of hung aboves. Preventive measures in cases of pneumonia must be outlined by the

Lang aboves may occur as a single or multiple lesson, the incidence of the two types being approximately the same. Multiple lung abscesses are more difficult t diagnose resist medical and surmeal treatment, and are especially prone to occur follow

ing infectious processes elsewhere

Advances have been made in the diagnosis and localization of abscesses. An accurat history the findings of careful physical examination, the tough, and the character of the sputum are of great agardeance. The X ray and especially stereoscope A ray plates, ha e contributed t the diagnosis and localization. The use of the broachoscope is also of

Brouchiectasis and tuberculous must be differentuted carefully as to operation these cases when the leason has been diagnosed as simple abscess is

About one-third of all lung becroses heal spontaneously but an acut baress may become chronic and then will be far more difficult to care. A supposed lung abscess should not be treated expectant b longer than from six to eight weeks

Artificial pneumothorax has been employed by various surgeons with varying results. Although this method has a certain field of usefulness, it is not applicable in the presence of adhesions between the visceral and parietal pleure or in the presence of a need abscess wall. It is of value as a diagnostic measure and as indicating the advisability of a one or a two stage operation

Surgical drainage gives the best results in cases of single abscess in the acute stage. When there is accurate localization in such cases surgical treatment will result in a cure in from 75 to 80 per ce t The

mortality is from 5 to 10 per cent

Thoracoplastic operations are indicated in certain cases in which aimple drainage and compression operations have failed. Procedures of this type are divided into the groups (1) those which collapse and obliterat the abscess cavity and () those which extenorize the abscess cavity and cover its presenting purface with akin flaps or grafts

Broughoscopic arrigation of the abscess on ities a a palhative measure in cases of chromic abscess but is not a curative method. Lobectomy should be compdered only in those cases of lung abscess which resisted other methods of treatment

The author summarizes his experience naixty two cases of lung abocess. In fourteen of these the coudition was found at autopsy I forty three of the remaining cases forty five operations were done a th a mortality of 88 per cent. The autopay reports in eleven cases are given and the results in the thirty five patients who survived are reviewed MITTER R HOOM M D

Sants, L. R. A Study of Lung Abecses by Serial Radiographic Examination, J Rediel 17 B1

In this article Sante reports the study of forty five cases flung abscess

Lung abscess he defines as an acute inflammatory duantegration occurring within the lung and involving the lung substance itself as a result of the invasion of pyogenic organisms. This excludes abscesses due t the tubercle barillus and all suppurative processes of the pleural cavity such as general or localized empyema and small collections of pos associated with a scrofibrinous plastic pleurisy Such condition presupposes an area of consolida tion in the lung as a barrier to the invading organssms, and m this respect all abscesses may be con adered as post poeumonic comolidations thrown out to hmit progenic infection similar to process occurring elsewhere in the body. In this paper however the term pneumonia is confined t the acute consolidations of the lung commonly understood by this term, namely bronchopneumonia and lobar poeumonia

In the series of cases studied there were six in which the becess developed as a postoperative complication In t o, the condition followed tonsillectomy in one a herniotomy in one an appendectomy in one a cholecy stectomy and in one

the rupture of the gall bladder. The case chosen to represent this group was fast examined with the X-ray on the earth day after transfer over At that there the consolidations was confined up to the lumin. Subsequent observations provided rapid extension of the process toward the special rapid extension of the process toward the special rapid extension of the process toward the special rapid extension of the process toward the process of some after the ouset as area of rariafaction as observed in the midst of the consolidation. Such as area may be seen at one examination and not detected in subsequent plates. It may be seen repartless of whether the shacess cavity has reprured into the broaching or hot.

The reformable findings were similar in all of the cases in this group. In the author's opinion the cases in this group. In the author's opinion the cases of the condition must be some other factor than expiration of indecision material at the time of the superinted with the repeated miscous membrane associated with the repeated miscous membrane associated with the repeated miscous membrane associated with the repeated cases, in those as which the absence develops are weeken or the modula sites the operation there weeken or the modula sites the operation there

must be an added factor.

One case was examined within twenty-four hours after severe exposure to cold. Prior to the exposure the patient was apparently in perfect health. The X-ray revealed the characteristic findings. Empture of the abscras, which courted to the such day was

followed by recovery

In two cases the condition followed typical influenza m which there was no intercurrent pneu.

monta An abaceta developed without apparent cause in eight cases. The initial symptoms are pain in the thest dysproon, lever, chilly sensations, and chill followed by profuse awaiting. The X-ray findings were as described, and the area of ook solidation rapidly receded following rupture and drisings of the abaces.

drainage of the abscess

An apparent chulcal cure is not an absolute cure
Occasionally there is a recurrence associated with

the formation of multiple shoceases

A similing similarity see exhibited by the cases received The X-ray syndron; seemed to adicate that they all represented mixision by a y of the broach and that it all of them the crodings began as consolidation at the lethers and progressed perspherally. An area of rarefaction as often shown early in the disease. At this stage replaces and excusation must be broached in or into the plantal.

cevity may occur

Of another group of tikirtens cases, seven followed lobar; postmorms and in aux the cashtons was associated with beochesportumous. These may be considered as of respectatory cough in token power to the constant of the co

small abscrases which coalesce to form larger abaccesses in the mid lung portion

T o cases of long abacess were of hermatogenous origis associated with general septecemies. There were also three cases in which the condition resulted from regional lymphatic drainings from a septic process, and one case of direct extension of as infectious process into the intensitial times of the long following reprint of the enophages by mallgrancy:

In eight of the cases the histories were so indecisive that classification was impossible.

In seven of the forty-five cases there as involvement of the four might him. No particular type of involvement showed any special predisposition to spontaneous cure. Chincilly patient may appear completely cured while the X-ray examination reveals remaining doesness which representation reveals remaining these which representative remaining particularly grave condition. Any remaining patients of the remaining the state of the remaining the remaining patients of the remaining the remainin

re infection of the remaining lung
The author—conclusions are summarised briefly

as follows:

The came of lung lascess may enter the lung by
the responstory system following some condition in
which the local or general resistance is lowered or
following lobur or brouche pactineous. It may
aster it also by the bleed stress from a septic
process elsewhere in the body by invarione through
the lymphatics and supportion of the reprodulymph nodes due to drainage of septic process,
the proposition of the reproduct
lymph nodes due to drainage of septic process,
infected material into the sitentials bases of the
lung as result of destruction of the coophaged
and
McMinger-Rayenerr M D

Beys, H. L. Empyones, an Analysis I 100 Cases in Relation to Treatment. Misserois Med 9 5, 75, 40

The author groups all cases of empyema coming on the service whim two months of the onset of the cachinon su cases of cuts unpyema.

In the cases reviewed, the empyema followed lobar pneumania in 56 per cent and influenza in 56 per cent. The number of leucocytes averaged

In cases of primary threase which does not clear up with change is the chest findings, the X ray is of great issumance in the disgnosis, but does not sisting above the copperms. Aspuration with meetic in also of disgnostic and and should be done early. The character of the find and the type of organizaary of importance in the choice of treatment.

The old behef that immediate operation should be done for empress a standard during the influence specime. As risk, however possionococcus empress aboutd be drained as soon it is disgnood. In early streptococcus empress, aspectation is the treatment of choice and tasy to repeated. Drainage is unasily secreming that the

Nitrous oxide is the smeatheti of choice unless

it is contra meacated

Pus should be demonstrated by assuration at the time of the operation, and the needle kept in the CEVILY

Intercostal dramage should be reserved for very severe cases Rib resection is the operatio of choice Closed drainage was done in ten cases It usually becomes open in abort time

Drainage should be provided t the most de-

pendent portion of the cavity which in recumbent patients is usually the posterior portion of the CAVITY

In the cases reviewed, irrigation with Dakin fluid was used routinely with success. This below to desolve the fibrin and lessens the symptoms of infection Bottle-blowing and lung exercises were also included in the postoperative treatment The drainage tubes were shortened early so that they passed nly through the thickness if the chest wall, but were not dispensed with until the cavity was practically obliterated

In two cases the pentoneum was opened Care must be taken in the low dramage cases to prevent this maken. Seventy are ner cent of the cases were

apparently permanently cured

In the cases of chrome empyema the condition was caused by infinenza in 46 per cent and by lobur porumonia in 26 per cent Most of the patients ere in the fourth decade of life. Seventeen of the fifty cases had not been diagnosed until the process had been present from two t twelve months Tharty one cases had been operated pon previously In the rubber drainage tubes were found. In one case previously diagnosed as empyems and operated upon, the condition was found to be dermord cyst. The causes for the failure of the previous

operation to effect cure were (1) failure to drain t the dependent point () too early removal of the tube, (3) early drainage f streptococcus infection of influence (4) greatly delayed drainage

large per collection, (5) bronchial fatula. Forty of the fifty cases were drained by rib re section Four were not operated upon seven were openently cured. In eight cases drainage was established t two points all of these patients progressed well Irrigation with Dakin solution in the after treatment was more successful

than in the acute cases

Plastic operations were done in six cases, but ere for the most part unsuccessful

A bronchiel fistula tends t close if the empyema is adequately drained Marcos II Houser, M.D.

Cameron, H. C. and Osman, A. A. Empyema in the First Tw. Years of Life, with a Discussion of the Value of Immediat. Resection of Rib Lanced 9 1, ccc 097

The uthors report on fifty-two cases femprema in children under years of ge Thirteen of the pitients recovered and thirty nine ded. The cases are classified int to groups Group und ded those in which the emprema developed after the poeumonia and the temperature curve of the empy

ema was separate and distinct from that due to the pneumona These are called meta pneumonic emovemes. The second group included the cases in which one temperature curve was superimposed upon the other as the empyema developed before the pneumonia had abated. These are called cases of avn pneumonic empyema

Of the thirteen cases in which recovery resulted, twelve were I the meta nneumonic type. Of the thirty nine which were fatal, thirty-four were of the syn pneumonic type and five were not grouped because of deficiencies in the records which made definit grouping impossible

Of the thirty mine patients who died, twenty died following nb resection and drainage twelve cases of the meta pneumonic type and the one case of the syn pneumonic type in which re covery resulted were also treated by nb resection and dramage

In the authors cosmon all meta pneumonic cases should be subjected t operation as soon as the pneumonus has subsided. The operation of choice is no resection. Cases I syn pneumonic empyema should be treated by repeated aspiration and if pecessary closed drainage

RALPH B BETTWAN, M D

HEART AND PERICARDIUM

Salmond, R. W. A. Artificial Pneumoverleardium Arch Rediel & Riccircitorety Q 3, xxvm, so

In case with repeated large effusions in the nericardium in which paracentess was performed at intervals, air accidentally entered the perscardial as after one of the tappings and permitted the visuals sation of a tumor mass which had been becured on previous roentgen examinations. The patient was subsequently operated upon and the tumor found to be large cyst which was closely adherent to the upper left aspect f the pencardium and had been leaking int the personalium

While the case described is no doubt exceptional. the author believes that in certain sintable cases the artificial introduction f air or other gas int the perseardnum might be f great diagnostic aid. The case reported a ould have almost certainly terminated fatally if the cyst had not been revealed by the roentgen rays and successfully removed

ADOLFH HARTONO, M D

Pericardiotomy for Purulent Pericarditie (Pencardiotomia per pencardite parulenta) Arch riel a cher 9 3 VI. 6 0

Gamberini reports case of purulent perfoardities in a boy 7 years old in which, after punctures had failed, he did a perscardotomy with dunage Except for slight thoracse deformity the results were excellent

Camberini, C

Puncture is indicated in cases of indolent seroes effusions of the percurdium, but when the effusion is secondary to some cause which cannot be removed pencardiotomy is better

I acute serous persearchils poneture ca be used, but in the chronic types it is best to do a pericardi otomy leaving the perhardium one and change the thoracic walls

Puncture is commonly used in harroperlearthum but in serous effusion of tuberrulous origin the best

results are obtained by personductions In purclent percarchile puncture is absol tely

contra indicated except as a prebailmary t the operati e stage. The mortable of practure in there eases is insort 100 per cent, while perfoards ctomy is followed by recovery in from 47 t 63 per cent of the cases

CSOPILAGUS AND MEDIASTINUM

Bullrich R. A. A Causath: Factor in Cancer of the (Exophagus (Non not solve a factor determinant del cauer del coll go) Semesa mil 983 EFE [19

Bullirich finds that cancer of the resort gue is purticularly frequent in th Argentine Republic and th t it occurs with but few exceptions in the upper third of the tube the rose most sposed t lajury. He believes the cause is the dranking of hot fluids such as the national beverage to I H ducuses the initation theory of cancer and in this connection refers to a article by 1 J 11) In which hot drinks are excetioned as cape of do R 4 MILITAL odenal wker

MISCELLANIOUS

Plannik G Solephrenic Aburea (Cranbot conoccust degli scessi subfrenici) Paluli Rome pes 111 74

Prisand classifies subphrenic abscess int the abstomizat (antero falerios), the thoracic (auterosuperior) and the lumbo-retroperituneal types

The thoracic type of subphrems abscess almost alway causes resperatory poin, dyspects, and cough, and often a pleural reaction. The dyspoora is never severe. Prevente on the perceciarrellar freez on the side of the purplent collection is someturnes painful. It the level of the lower intercostal spaces there is subject! and provoked pain. The replicatory excursions on the side affected are limited, and the lung exhibit symptoms of compersolos. The heart may be deplaced, and the area of dallaces ruy be great! increased.

I the abdominal type of abecess painful tumefaction is found 1 the fivy otherdrain and there is pale reduting t the shoulders and the epiguetrium Respiratory symptoms are absent Vernit hat and contraction of the abdominal muscles occur On the affected aide the de phragm is immobile

Cases of the lambar type of abserts are character lard by spontaneous and provoked pala in the lambs region, more or less diffuse tamefaction.

and immobility of the dusphragm

The local amptom mentioned are recent in addition t the general s missions of fever etc but the entire schome offers nothing expecially characteristic and the charmons must depend to ereat extent on the exclusion of other conditions The mortably which ranges from so t 17 per

crat in the cases operated upon, can be improved only by early intersection. The indication for earl

operation is the presence of pas.
Thank gives the choseal histories of three cores In the first and third, the abscess as extraperstoneal and in the left lumbar region, while in the second n to intrapentoural and between the ever and duplersem I the first case the etiological factor was an acute asteomyelith of the left transverse process of the first humbn ertebra. In the second nd therd cues the condition due to traum The first case as diagnosed as paranephritic reproperationed become the second, as hepatic above and the third, as a retroperatoreal above on the left side. All three p tients made good

BABR W

LCCO, CTA

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Becker A. The Treatment of Gangrenous Fernoral Hernia (Em Bestrag zur Beiandlung der gasgracnorses Schenkelbernie) Deutsche Zische f Ch

g s, chert, st

The other reports thirty six cases of gangrenous femoral herata operated upon during the past ten years In twenty-four, the gangresons gut was treated t the site of the herms, in seventeen in which the gut was resected there were four deaths in three with gangrene t the groove of construction closure was effected by suture with one death and in two in which suturing and anastomous were done there was one death. In two cases prolapse of the incurcerated loop occurred I tuelve cases, apparotomy was performed abov. Poupart a figament resection of the gut in four closure by enturior and entero anastomous in one, enteroanagramous without removal of the incurrenated gut from the hermal opening in five, operation discontinued because of hopeless pentoutis in the The author comes to the f llowing conclusions

The treatment of gangeme at the sits of the berns should be ttempted only when, without thruson { Poupart ligament, the incarcurated loop of git can be brought forward indiscently to allow the pecessary procedure to be carried on in full rows and in healthy tasse. In all other cases it is sifer to approach intestinal loops running it and from the femoral learns through as abdominal

IDCHOOD

2 Cloung off the gangrenous portion by suturing is of value only when it is certain that no dust risance of the nutrition of the intestinal wall will result, especially in the protunal perison of the gut

especially in the provinal portion of the gut

3. The radical operation is dangerous if there is
the sightest indication of infection of the serious

find in the sec Consents (Z)

Borckhardt, II Billary Peritentitis Witchorf Perforation (Perforationalise Gallespentesian) Best

H Ciss 9 3 carvas soo.
After unersome experiments on animals Burck hards concludes that it has not yet been possible it demonstrate inter transulation of hij or a bilary pentionian without perforation. All experiments have shown that wound of the gall bildeder and even a wound involving both the gall-bildeder and even a mountain the common periodic that in cases of behany periodicists the perforation in the bildary true that you not be found it operation or unitager say it may his become healed When the transulate does not have the appearance of bile but in a yellow brownsh, or greenable revialets, the conditions bould not be called

biliary peritoritis or biliary transudate as t does not differ essentially from the peritorial changes and erudates which has their origin in organs other

than the bilinty tract.

At operation, if the patient a condution will silow
it, a quick remnitation of the bilinty tract for positile perforation aboud be made. This should include
the liver particularly fit under-surface. Pressure
abould be made upon the gall bilidder and the common duct to determine whether bile flows out at any

If no perforation is discovered, the gall bladder should be drained in order to pervint a possible his stans. Cobeleystettomy is usually contra-andicated because of the patient's poor condution. When very great haste is necessary and no perforation is found, the operation may be limited to simple drainage of the port of the liver.

Vital Axa A Solid Tumor of the Mesentery Exthrpation, Gurs (Tumor solid do mesenteno extrependo radical curación) Proy de la clis Madrid, 9 3, xxv 3

The case reported was that of woman 25 years old The symptoms were abdominal distention, thight pain in the peri unlableal sone, persuate and anness of the left leg. The chinical this process was also of the left leg. The chinical this possition was commonious sourciant cyst with interinant diseases. At Inparitionary the function was entirpaised without the chinical diseases and the process of the particular that is a fine of the period of the pe

The enterpared tumor weighed a kilos, are gm Histologic examination showed no tendency to successful or epithelial degeneration. The patient as still well eight months after the operation

W A BEENGLE

GASTRO-INTESTINAL TRACT

Forstell, G. Studies of the Mechanism of Movement of the Mucous Membrane of the Differtive Tract. Am. J. Resultant. 9 1 2, 37

The folds of the mucross membrane of the toratch are supposed to be caused by pears. Indisey to due to contraction of the muscular cost (musculars proprist). Some of the folds of the mucross norm brane of the intestine are turbuted to the same cause but others are believed to be permanent statemental tructures. Forestell proved that this prevailing opinion is not correct as anatomical prevailing opinion in the same of the suppose of the difference of the micross membranes tells.

Although the relief of the rancous membrane marvary in both degree to every part of the digestive canal, it is clear that the membrane la these part a certain tendency to form contraction forms typical for the part I the seucous seculorase form in the lesser curvature of the storasch there are no transverse folis even with the greatest shorten g, the folds bring longitudinal and the surface mammiliated. The Jejustum ha a gre ter trackney to form a high and complicated rebel of mucous membrane than the ileum and the relat of the mucou membrane in the bulbus deoderd is of different () pe from that of the folds in the other intestines. The motor forces of the mucuon mem brane are found, not in the muscular coat (muscularis twoorsa) bich model the externe form and idth of the digestic tube but in the in scularis

TOTAL OVER The mass of the mucou membrare and the volume of its folds are probably regulated by yarra tions in the filling of the versels, while the number position and form of the folds are determined by

the muscular system in the proscularis manner The high and clove folding of the mucous membrane may occur more evaly with a simultaneous contraction of the ansecular cent (membrana propera) but definit degree of contraction of the projectals coat does not produce a defaut, correspond ing relief of the murous membrane on the cost in a stage of contraction producing a certain width of the m scular tube may be securify with relief of the procoss membrane rsing from a even surfac to a very complicated folding

According to the present general opinion, the fold of the mucou membrane has an e closh h pass. (specion, that of enlarging the digestry surface and preventing too raped flow of the intestinal contents. The knowledge that they renot nasery structures, but represent momentary state of movement must havely a new approcession of their function. It is apparent that the complicated relief of the fatestinal muccous membrane forms not only paud depository for the digestion and resorption of food, but also a mecha sum that subtle and onderf I organization for regulating the chemistry of digestion. The muscul r t be of the direct tract and the special motor mechan um of the mucous membrane collaborat in the

mechanism of digertion. Apostra Harraws, M D Luces, W P The Diagnosis and Treatment of Polorie Stenoulo Mai Clin V Am 9 J. vi. 181

Lucas present the following case hutory as the basis for an excellent discussion of hypertrophic

pyloric strnosis The patient was full term normally delivered haby weighing 6 lb 7 oz Regargit tion of its feetings began the second d y after birth. The following four d y the counting secreased but was not projectile in type Ultimately everythan taken as expelled

A hypodermochian of so ciera of salt adultion and to c cm of a 1 per cent glucose solution was give lot the longitudinal sinus and the stomach at is seed. On the testh day after both, projectile counting appeared and reverse permission was noted. An Vr.) examination revealed the bestruth I the tomack four hours after its inges tion none had passed the pylorus

A I restet Rammstedt operation was performed the following day. The prioric ring was found thickened, grayith hate and of carulamnous consistency. The operation required thirt minutes One hundred cubic centimeters of Ringer's solo

tion were left in the pentoural ca its

hour bours feer the operation sterile after was gi ra by mouth. The omiting till persated Another hypodermoely as of salt solution and gis cose into the longitudiani sings then given The second day after the operation flouls were introduced out the tomack by the Murphy drip small catheter. The following day pormal breast feedings ere resumed and ell tolerated Convalencence was normentful

In 1777 Armstrong published the first report on pylone obstruction. Huseburning in \$57 reported cases at meeting of the German Pediatric Society. The condition is erserally imbuted t stuant of the pulotic softweter causing mescular hypertrocks of the circular fibers of the rung or t congenital hypertroph of the muscular fibers of the soluect r It occurs in from I a per crut of latest. Lighty per cent of the cases to those of males. The condition is most ommon is the third or fearth rok of life

Presumably the child is born the congenital defect of the subjecter muscle. The polorus is thekened and cartilagnooms and he redundant mucesa. The britsissis occasioned by food passing through the canal sets p mucosal ordens which in 1 cn causes an urntate around of the sphereter

an marks The essential ymptom is coming hick may he either grad if or abrupt in onset ind occurs immediately after feeding Projectile vomiting and later reverse persitales - ith gastne dilatation are pathognomonic of pylonic stenous. Rocatgen ray examination ith bean th nical and gustre I ge are oft ands in estimating the degree of obstruction Weight loss follow the ontinued omiting nd the stools appear meconium lik consisting mainly of bile moces, and intentional det ton With this combination of ymptoms the diagnosis is easy. Regargitation and omitting cased in the newborn by air ingention irregular feeding and overfeeding are usual corrected Projectile vomiting weight loss and

raccommon atools never follow the numble stratety The author believes that in earl cases it is justifiable t try modern methods of niant feeding as most cases of spasm. Ill be corrected by atropus treatment in conjunction the the feeding of thick

conditions

cereals. The administration of 1/sec pr of attored to moball how before feeding should be followed by patent laying with a west sodium bearboaste solves. A feeding of or y to of 6 per rest fixed the patent layer with a west sodium bearboaste solves. A feeding of or y to 6 per rest fixed patent layer by the set of the patent layer by the set of the layer by the set of the layer by the set of the layer by t

In the operature treatment the Fredet Rammeted operation has been lound much supernor to the old gastro enteroatomy which carried intitive of boat up per cent. Considering all cases both early and late the average mortality of the Fredet Rammeted procedure is from 8.1 op per cent but is practically and if the operation we asknow one week of the first projectic woming. The advantages of early operation consist in the reduction of peatoperature sheet, better wound beging decreased danger of sudden duels, and the reduction are peatly suspified. The results of few surpeal conditions depend so largely on the shifl and rapidity of the surpeal

After the operation the child should be placed in a semi-erect position, feedings should be begun four bours later and dehydration should be presented by hypodermodyes. After three or four days the child should be put to the breast and will name in the normal way. Joseph W. Norwe, M.D.

Cutier E G and Newton, F C. Perforated Ulcer of the Stomach and Decement. Beckes M & S J = 324; christin, 250 The late results indicate that the best treatment

The late results indicate that the best treatment of personated older of the stomach is gastro enter outputy with closure of the older

Perforation, especially in disordenal electroceuts more frequently in males than in females. In most cases a history of indigention or other

bdominal complaint is given but in some the perforation is the first sign of older

The interval of time elspang between the perforation and oper time is of great importance in the prognous. Recovery results in most of the cases operated upon before twenty four hours. In those in which recovery results when operations as performed later the ulter is usually of the walled of variety.

Gestro enterostomy apparently does not increase the risk whatever the time interval, and the convalencence (offoring this operation is less stormy than that in cases treated by numple suture. The 1 te results are also more satisfactory and the secondary operation is unnecessary.

In any case under t enty-four hours old a gastro enterostomy is drasable unless it is contraindicated by some special condition.

MARCES H HORAT M D

Downes, W A. Hour-Glass Contraction of the Stormech. Surg Clas N Aus. 913, III, 143

Dos ne reports case of hour-glass contracture if the stomach due to a penetrature plear on the leaser curvature. As the patients condition was very poor the simplest operation that would meet the requirements was desirable. A grain-pastinatory of the anterior walls of both ponches and a pylocoplasty by Timer's method were done. The patient was dasharped from the hospital on the twenty-eighth day. In conclusion the author states that the lideal

operation in this condition if the patient's condition will permit it, is resection of the stomach

I EDWARD BRANCOW M D

Nielsen, N. A. Th. Results of the Niedscal Treat ment of Gestric and Duodensi Ulcer. Arts and Stand. 19 3, Ivia.

In the cases reviewed the diagnosis of ulter was based on the occurrence of bematteness, the presence of an hoor glass contraction, or the findings of a exploratory operation together with the other characteristic symptoms and ugm of the lesson. The princips have been under observation for periods ranging from two and one-half it kently years a point of the case in the case and the case is considered to the case and the case is shown.

It was found that when a patient suffering from gastric ufer became symptom free as the result of treatment and developed a recurrence later the recurrence appeared before the lapse of three months in one-third of the cases and before air months in one-third of the cases and before air months in one-third of the requirery of recurrence of the contract of the case of the contract of the contract of the case of the case of the great suddenity decreases markedly.

The relationship between the duration of the symptoms before the treatment and the patient's condition after the treatment is shown in the following table.

PERSONAL OF EMPERATOR OF PERSONAL SOCIEDATION

	֓֞֞֞֜֞֜֜֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓			2	H	11
-); % to 10 ; 3 10 ; 5 10	60 33 3 30 3 30 7 7 5 3	20 J 6	% 56 9 10 8 10 8	16 7 6 7 1 10 7 8 7	76 7 70 8 57 9 46 7	3 5 89 41 53 3 74 4 77

It is seen that the percentage of those permanently cured by treatment, plus those permanently cured after a relapse, decreased as the duration of the as imptors increased and that the percent ge of crises benefited was not infraenced by the duration of the symptoms before treatment. The percentage of poor result successed with the dur 1000 of the symptoms.

The location of the leer the type of symptoms the prolonguion of the treatment for longer period of the leaf the manner in with the alter reacted to the teatment seemed to be a cathemat seemed to be

to the subsequent course

A alcers as r the pylores came the more severe symptoms on relapse, it is probably best t treat them surposal becreas uters of the corps which came out mild symptoms relapse are best treated medically

The arther states it it is desirbeful whether there is any diagret of cancross deprenation of the ulterer that at a year it is to behink a like of no peaclosed augment ree. Perforation and I tall harmorrhage occur compart if all wildows in cases of chindrally default knowled calters. This risk if the individual case is quite echipsed by risk which can be faith; cell estimated in which the hones of

becoming as 1 slid.

With method of treatment was used in these

cases. Briefly this is as follows
Food as third for from t t four day

but one or two utriest nems as given lier hemorrhage or severe s improves a During the first red iberealter. Iter of

- 2 During the first cet iberceiter liter of mulk and tw eggs beaten together are gi en the first day, and the quantities of these food 're then increased until a liters of mulk and aix eggs are
- 3 In the second week of treatment nee pucking and so gm of reasted scraped mest re gi en in iddition.
- 4 I the third cek the det of the second cek is increased by the ddithin of sign pushing out med front link sugar four and to

ment from juk sugar four and te 5 In the fourth week builed fish, hit brend oil butter and, with general improvement, light

ments are given

neals are given
6 In the fifth week the milk and eggs are grad

ually decreased.

7 After the bland diet is trained, it is go en for from one-half to one year.

8 The patient is kept in bed till a light dict and bolled mest are tolerated.

Rosray M D

Aleseradri, R.: Three Cases of Syphilis of the

Alesandri, R.: Three Cases of Ephills of the Stomach (Freeze distribut stells Homaco) | | unit of the | 9 J. R.

One of the caves propried as that of musty years old and the cret those of owner as and ay years old and the first case the thought exploration hypothesis for the removal of times like histologic examinat take a from proplastic miss on the lever cur is to of the atomich I same thon disclosed no sent pulsatic elements. The patients had strongly

positive II. wermans reaction and improved rapidly under a 11 syphilis treatment

I the second case pastro-enteroscopy was done polone strend stem in the vaculty of the polymer by this done in the vaculty of the polymer. The this done reministers or the specified series supervised symbols. On being questioned the point then admitted burning had direct if the light me them. The Westermann traction was found strongly pour. Subarant testiment market an analysis of apple improvement of the gitting out these dates.

In the third care an exploratory improtons with exercise of theree from furta-m lone tumefaction on the greater curvature of the stomach was done Histologic examination aboved but slightly comthese ath accumulations of him ruct connect phord cell and the borner of prophstar lements The Raperma reaction was positive Loder treatment with oil areas the patient improved temporarily but later was obliged to return to the hospital because of evidence of pylonic steroils A pylomeratric resection, which was then done afforded the opportunity for carried anatomonathologic examination. There was complete absence of cruthelial infiltratif fements the ements and proved is meserous ere almost normal but the submuco ca greath thickened and should h mobiertic javasion especially around the blood channels.

Pistocchi G.; Primary Sectoms of the Stoenach and Trasma; The Trasmatic Genesis of Tagones (hercoma permetre delle stoenace trasma genes trusmaten di 1 soon). Pel ha Rope q 1 sta, ec hor 3;

Petocchi gi ei the clinical history of cree of pressury surcom of the storatch in many; raris of ge. About us months before he was ex named the putent had suffered a severe continuon of the laws rubs but there had bern no omitting or setting follow. The pu was localized chesh in the cps gratter group. Since the accident the pattent had

gattre region. Since the accident the patient had lost has appell had become emact ted and had complained of muses:

An \times my examination showed only shight distation of the storaich without any siling defect.

or an tion! form except that the pilorus appeared somewhat doorleded to the right. Death occurred

t receths I ter

At ottops the entire lever core care and the singliboring part of the anterior grainer all the singliboring part of the anterior grainer all the found occupied by an inference save. The enphases resched to measure of the core constitute. No 3 cm in thickness over the lever curvature. No settle-with, though were found in the interior. The anatomical di proses was journ to their of the storn of the core of the core of the core of the storn of the core of the core of the core of the storn of the core of the core of the core of the times of altypolyborrows.

W A BEETLA

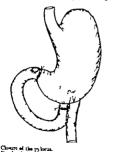
Cerf L., and Pauly N. Deflection f th Billiary and Pancreatic Secretions by Jetunoleiunostomy as a Complement of Centro-Enternatomy or Gestrectomy (La dérivation des sécrétions babaires et pancréatiques par jéjunojéjunostornie compo complément de la matro-entérostornie ou de la gastrectomie) Brundles mie o 3 m 57

When the gastric tube brings up from the fasting stomach a large amount of alkaline fluid with a bile reaction, a pathologic condition may be inferred When function is normal, the presence of bile and pancreatic secretion in the atomach is exceptional That it is not badly tolerated, however is dem-constrated by the cases in which a grastro enterostomy saves perfect functional result and by the fact that in certain cases of acterus due t obstruction the gall bladder may be anastomosed t the Homach

In the cases of nervous patients whose gastri mucosa, being hypersensitive, does not tolerate the unaccustomed contact of bile, series of morbid manifestations are noted which end in bihary vomit ing and the catheter withdra quantity of alka-

hne fluid of bihary character

Medical treatment in such cases is difficult and a definit cure is biasned only by operation. The operation described by the authors and recom mended by them for these cases may be performed as a supplement to gastro enterostomy but on ac count of its simplicity and beneficial effect they believe t should be done as prophylactic measure at the time if the primary operation. The technique commuts in closing the afferent loop (when the gustro-



Deoleral sicer

Closure of the afferest loop (ull sutare) Posterior gretio-externator

Faters apartomous of the afferest and efferest loops.

enterestomy is made near its outlet) with heavy alk sutures and then uniting it above to the efferent loop by entero-anastomosis

Victoria circle is impossible the mastric contenta cannot reflow toward the duodenum, and the bale and pancreatic secretion cannot reach the stomach. being turned into the efferent jerunal loop. The normal physiological conditions are thus approximated as much as possible

The method somewhat resembles the Rour systementerestomy in Y but has the important differ ences (1) it is easier and less dangerous, and (a) it allows a large onfice t be made, while with the Roux method the gastro enterestomy opening cor responds to the diameter of the afferent loop which is greatly restricted and becomes smaller as the result of contribution W A BEETVAN

Lockwood A. L. Surgical Possibilities in Tranmatic Rupture of the Intestine. Canadien If 9 3 xm, 1

Rupture of the intestine may be caused by sharp blows on the abdomen compression or crushing, indirect force, or sudden increase in the air pressure w thin the lumen of the bowel. The most common cause is direct compression of the intestine against the vert bral column, the promontory of the sacrum or the pelvic crest. The rupture may be complete or incomplet rule the small bowel is com-۸s pletely severed while the large boxel is only par tially ruptured Lacerations of the small intertine tend to be localized t the fixed portions Lesions of the duodenum and colon are frequently retropentoneal

The author has collected the reports of 65 cases of transactic rupture, of the intestine occurring in civil life. The small bowel was the sit of the runture in 90 per ce t I the o per cent in which the large intestine was ruptured, the execum transvense colon, and pelvic colon were invol ed in the order named

The symptoms f intestmal rupture depend on a great variety of conditions such as the nature and sate of the lesson, the presence of lessons in other viscers, the patient a resistance the fullness of the board, the treatment, the time since the injury the meestion of fluids, and the administration of morphine. They may appear immediately or lat They may be greatly delayed even hen there a complete rupture of the intestine

Frimary shock appears almost immediately after the rupture Apart from hemorrhage, the onset of shock and its seventy do not constitut an indica tion of the extent f the rupture Primary shock occurred in 80 per cent of a large series of cases

The temperature is usually subnormal, the pulse weak and rapid and the respiration of the thoracie type. With the reaction from the shock the tem perature rues If it falls again and there is increasing rapidity of the pulse rate, the condition is serious A high temperature usually occurs in late cases and indicates gra e peritoritis

Nomiting is a cry important symptom and invariably present. It occurs early if the lesion is located hern up in the small boxed.

Pain and tenderness askle from the superficial braising is a well localized deep pain often radiating

t the lobs or deep pel n

Abdominal rigidity either general or localized over the area of lingury is typical and present in practical all cases Progressive board like rigidity indicates sensors trouble frequently a spreading peritousits.

Unionitial distention ith tympany may be of the paralytic type. Increasing distention eight to ten hours. Her that I gay is a gra. sign. The beence of liver dullness is evidence of

serious trouble and northless for early diagnosis as it occurs only in late cases after the time for surg

ical operation in passed

Surgical emphysism occurs in associated retropentoneal rupture of the duodenum and colon

The extreme importance of the 11th disposes of replace of the bosel cannot be engagested. A delay of one hour at the critical time will desired as chance of surpcial as I is important the extract thorace renal, and spearly juries. The surhor operative on all persons who following lies on the abdomen, a creeling injury, or fall, complain of server belominal pain which hasts for complain of server belominal pain which hasts for the defense of surface of the surface of

Practically all cases of repture of the bowel are fit thinkes they are operated upon. Leason of the large bonel — re obviously more distances because of the greater danger of personsels—just as location of the greater danger of personsels—just as location of the proposal of the common in the proposal of the time elibrang between the inj. a and the operation. The proposals in best less the operation of performed within about not the unjury. I cases operated upon after tenty bony the change for recovery is single.

Of t cuty seven cases of intestinal repiture seen by the author in the period from o 4 t 10 8, fourteen came too lat for surgery and ere faist! In thirteen operated upon there were five recoveries R mure of the bidder, and retroperational munea

its kidnes lessons complicated two fatal cases

cuch Operation should be performed 1 the cuthert possible moment after the subsidiance of shock the shock about be consisted by blood transfession heat morphine and salase solution. At operation in the surbor cases neighbeau is induced with nations couche and salitation of the sibbonarial will with perocause. A wake increased in rules over the site of interpretations found are closed. The subsidiary of the site of the performance and the country of the site of the performance found are closed. The site of the performance studied from the decoration of the certain The spiker ladient storage contact the rectain The spiker ladient storage contact the rectain The spiker ladient storage hancers, liver bladds, and rectum are pulpated.

Resertion of the bowel should be avoided and is

Catest V o for the first later followed by Lembert sutures will suffice for the small board. I the large board t layers of catent setures are reinforced 4th linen or salk. Omental tags should be tacked over the nie of repair. If resection is necessary an end to-end anastomous is preferable in both the large and the small intentine. The athor completes the toilet of the perstoneum by mopping out the abdomes with gause wet with salme solution. Impution and hwage of the pentoneum are dangerous. In the author' cues a hypodermorivas of salare solution is given and sol tion of sodium becarbonate and glucose is administered by rectum every four to eacht hours for forty-eight hours Morphine is prescribed to alos the respiration and mbibit perstalus

In the lat cases the only treatment possible as supraposite drainage the administration of mer plane and hot pplications t the belower These cases are usually (at al. John W. Nerva, M.D.

Schlarpler K. Combination Heus Aus Serg 9 3, Izrve 204

Combination Bens has been defined by Hochenegg as the concidence of t acut occlusions of the intential tract the primary occlusion becoming widest chinculty only on the development of the secondary occlusion.

The whore belies at that combination items should be supperted in any case of inconcrated berms (pseudo-licearceration) in which the history and the flackage on extrination are not typical of complete setule Intestinal orchimon, and if at operational ties use to a secular conduction of the effective and efferted loops of intertine and adjacent measuriery re-missinal.

A laparationy the theoretic translation of the part ill expose the primary factor in the orderson. This is generally a mechanical occlimon, either an abstration (gall stone exposite, new growth as requested in easier of permitting the product of the product of

When one cause of obstruction has been removed through a summation and paphasion should be made it ractiofs the presence of weeds helded in made it ractiofs the presence of weeds the cause of the progress. The high nortality in these cases is due to be fast that it has time of the fast operation only one factor in the obstruction. See removed and second operation as necessate ted by the pensatence of the yrappions of acrit intention destruction when the proteint was in "and Represence, M.D."

Williamson, C. S. and Brown, R. O. The Fermeshility of the Intestinal Mucosa to Certain Types of Becteria Determined by Celtures from th. Thoracle Duct. Ass. J. M. Sc. 9, 3, dry Abs.

The purpose of this investigation was to learn whether betteria introduced into the intestinal canal under normal conditions and under oo distons comparable to those of operative procedures could be recovered from cultures of lymph taken from the thorace duct.

Observations were made on dops with thorace dout failule. The technapee for making the thorace dout failule. The technapee for making the thorace dout failule was moduloutom of that employed by Bloedl. After the fatals was extablished, battle produptions was chosen as the most astafactory organization for the purpose of the study. The bacteria were grown either on destrines gar or a housilion calture as a rule, forty eagle thour cultures were used for topection. The gar cultures were washed of with all adulton and left of unperted as all all sol too magnetisms. Boulfon culturas were used for magnetism but when employed were either fed orangeted. Control cultures of the surpersions were made before majection to determine whether the organism was valide. The amount of the surpersion rever variety from soit is occur for each door

Gra \$ 1 This group of experiments consisted of the administration of the organism to fasted imals and the culturing of the thoracle duct hyph t determine whether the ingested betterns

could be recovered

Grash The animals it is group feapertments, in dition to being fasted, were given a purge of castor oil or magnesium sulphat to determine the effect of irritation on the passage of bacteria from the intestinal canal to the lymph stream.

Green 3 This group of experiments was made to determine whether diet might be a factor in the passage of bacteria from the intestinal canal to the lymph stream. The diets given were nich in fairs.

proteins, or earbohydrates

Gress). Even the results of the praymen groups of experiments teamed that the bacteria might be destroyed by the old pairie, pince. To obviat this provide the pool piquium is it so one below the ligitariest of Treits as brought p and saturation to the provident to the days before the experiment was performed. The wound besided in the control of the provident prov

Group of this group of experiments an attempt was made t determine the effect of drying and trauma on the passenge of bacteria from the lumen of the intestine int the lymph stream

Grap 6 The experiments in the preceding group, hile similar were not comparable t operative procedures on the intestinal canal. Therefore in the sath group of experiments intestinal operations ere door, and the batterial supprison was

mjected t the completion of the operation. Cultures were then made as in the preceding experiments.

Gress 7 In this group of experiments cultures
were made from the thoracic duct lymph after the
injection of the bacterial suspension into the colon
following a cleaning come.

Grow 8 In this group of experiments cultures were made from the thoracte duct lymph after the injection of the bacteria into the pentioneal cavity. There were eight experiments Positive cultures were obtained in four in from two to four hours after the injection. This group of experiments was made as control for the other groups.

The conclusions derived from the study are as

follows

It is not possible to recover bacillus prodigiouss
from a fistula of the thoracic duct by culture of the
lymph after the ingestion of the organisms

The negative results were not influenced by diet or by trauma due to exposure of the viscers or t standard operative procedures

summand operative procedures
 Cultures of the forces for the ingested organisms
 sere perative

4 Cultures obtained from the thorace duct following the injection of the bacteris int the peritoneal carity's re-positive in 50 per cent of the experiments of Group 8

Lemon, W.S. The Status of Present Day Methods of Examination in the Diagnosis of Intestinal Tuberculosis. His costs Med., 923, 1, 200

It is well-known fact that tuberculous of the intestum may result from the ingration (food containing tubercio bacilli. Such an infection is classifed as primary and is in chimore common in children than in adults. Secondary tuberculous of the intestine is almost sharps, associated with disease [th. lump, although rariely it may appear as a result of perticosal tuberculous or cluerculous checkers in the body. It has been estimated by various uthough tariely the man of the country in the secondary metastian involvement occurs in more than 50 per cent of all cases of pulmonary tuberculous.

Stempt divides tuberculous of the intestine into three types ulcerative, stenotic, and chronic hyperplastic. Of these the ulcerative is by far the most common and the stenotic and hyperplastic see relatively rare.

While all cluncans agree that the incodence of intestimal involvement among tuberculous patients is high two facts make an early pontrue diagnosis difficult (1). There may be no symptoms as appear to constant and (1) such symptoms as appear and constant and (2) such symptoms as appear to provide that the progress of the discuslations feels that the progress of the discuslations feel that the progress of the programatic outlooks as large and provident and the procultooks as large and provident and provident and procultooks as large and provident and provident and protooks as a provident and provident and provident and protooks as a provident and provident and provident and protooks as a provident and provident a

The late symptoms of tuberculous entertus re merely those common to entertus or ulceration from non tuberculous disease. However, if the back ground of the tuberculous patient is kept in mind, these symptoms become of significance and even earber signs may be noted. It is recognised in an indefinite way that the patient who should be doing well is dome poorly Constitution or distribute may set in, or these conditions may alternate. In general it may be inferred that diarrhors is proportionate to the extent of involvement of the large bowel, while constinution characterizes those cases in which the small bowel as most myshed. Osler and Starr mention hemorrhage as an important ugo, but this was absent in Lemon's series

Among the name found on physical examination the most important are the sense of mass formation. an indefinit induration in the exceedionic area, and a feeling of general resistance and pain on deep pressure causing recognizable rigidity in the muscles of the abdominal will. Distention has been less commonly noted, and active peristalus was observed only with symptoms of obstruction. The presence of a draining amos or leval fatula following an appendectomy is an important finding, but in such cases a search should always be made for the ray fungus before a dragnous of exceedonic tuber culous is made. A proctoscopic examination in these conditions is often of the greatest value

That examination of the stool for tubercle bacilly does not maternally aid in the diagnoses of tuber culous ententus is seen from the fact that 75 to 05 per cent of all cases of active pulmonary tuber culous with bacilli in the sputum likewee show

barnih m the Mook While rentmenological examination as undoubted by the most precise method tour disposal, Carman finds that interpretation is not without difficulty became there are no pathognomonic rountemological aigns. The filling defect and the absence of the normal harrom shadow in the cerecolor are sums of every alcerative process II, however the examiner bears the patient's tuberculous in mind. such findings take on the certainty of chagnous In fully 84 per cent of all cases of natescenal to berculeus the leasons are found in the ileotreal area The author's conclusions are summarized as

follows

The charmons of intestmal tuberculors is made on circumstantial evidence collected from the limitary of the ailment, the examination of the patient, and the laboratory findings. The examinations include a proctoscopic examination, a study of material obtained through the proctoscope, a stool examination, and roenternological observations

Downes, W. A. Perfecated Doedsmal Ulcar in Child. Ass Seri to 3 hervu, 750

In the case reported the condition began with vomiting, but without pain or fever. All food by mouth as stopped and nothing was given but water. The vomiting cessed and there was slight improvement. On the morning of the mith day sudden severe pain occurred in the upper abdomen large amount of brown finid was vomited The pain and vomiting continued and the temperature rose t os degrees F The bleed count

revealed so,coo leucocytes and os per cent noly morphonoclears. As molefinite mass was palneted in the upper right quadrant

Exploratory laparotomy revealed large quantity of bile stamed find in the pentoncal cavity and a perforation 36 in in diameter on the anterior per lace of the duodensm rest datal t the pylocus The perforation was closed with a persenting suture of chromic gut reinforced by interrupted sutures. All fined was assirated and the wound closed without dramage

Convalescence was unaterrupted. On the seventeenth day after operation the Tray revealed normal stomach function

CARL D Namento M D

Brendolan, G : A Leiomyoung of the First Partion of the Jejunum (Leonsons della prima pormon del digrano) Policios Rome 10 1, xxx ses cius

Turnors armer from the connective tunne of the intestine are rarely reported in the literature. This may be due to the fact that, apart from their leaser frequency the symptoms they produce are much

less severe than those of epithelial tumors.

The case reported by Brendelan was that of men aged 34 years who, four months previously had an attack of intense pain in the left hypochondrum Later a swelling developed in the same area, the abdomen became tense and defection was painful, but the faces showed perther blood nor mucus Taus belomusal condition continued for twenty days, after which the pain accompanying defrecation became localized in part of the interting and then diminished

On examination, smooth, mobile turnefaction, the size of a firt, was found under the left costal margin and extending limest t the umbalcos

Afte the usual organic and other chriscal tests the set of the temor was believed to be the postsmor portion of the operation. It is usually considered nathornomonic of such omental tumors that when the stomach and transverse colon are filled, they disappear or decrease in size. This sign was observed. The pre-operative diagnosis was benign tumor probably cystic and pedunculated, of the posterior portion of the omentum

At operation, round termor the size of the head fetus and full of blood was found implanted upon the upper wall of the first portion of the grantem about four angerbreadths from the light ment of Treats. This growth was removed with the portion of the missinal wall on luck it was im-

planted. The patient made an excellent recovery Histologic examination of the tumor showed that lenomy ones arrang from the intestinal musculature. The overlying mucous was undergoing

description The author reviews the hierature releving t

knowymenata of the gestro intestinal tract. Stemer collected fifty six such cases in 800 but many of them were not proved cases. In o 7 King, in an article on benign tensors of the intestinal tractimentuned only thritten cases of myona proved by hatologo examination. Brendolan believes that shile each tumor may hav a wasular oran the majority arise from the muscular part. I the organ on which they are mplanted and in the case of the intestinas from the musculars mucosa. The chair conditions with which with a tumor may be confused are cancer and sample and unbertulous in faminatory tensors. The chair diagree arising from such growths in their tendency to acromations degeneration. The only treatment is operate was presented to

David, V C. Stiding Hernin of the Cocum and Appendix in Children. Ass Sarg 9 3 km

A review of the literature shows that sliding bernia in children is not a common condition and that it is generally thought t be associated with rotation of the carcium and the descent of the testicle

during inits attented if The occum develops from the large boxel and hes up beneath the liver. As I tall id progresses, and rotation takes piece and the colon descends int the lower belones. Funon occurs bet een the pertoneum if the secretary colon and the posteror panetal pentoneum, fram; the large get in piece. As posted out by Heldurind: I uson of these two structures is sometimes incomplete, allow ing certain mobility of the accessing colon. If

this occum. The tentice descends to the ungumal canal boot the fifth month of fetal bit. It is preceded int the secretim by the tunica sepandia. If the descent of the tentice were the cause of the herma. If the occum int the six, the tenticle only have t draw the occum and purt of the parietal peritoirum down beacons, or who collected the second of the tenticle only the parietal peritoirum down beacons, or who collected as a undescribed it tenticle.

ould be the result

418

The frazon of the execute t the bermal sac should not be considered the result of fetal pertucuts as this would cause endence of inflammation in the surrounding structure. The suther flers the enggation that feason of the wall of the execute t the pertucut surface I the viginal process takes place pertucuts the pertucuts of the pertucut of the the sacreding colon it the potency pertucts pertucced.

D will describe three cases in which the circums is found t be priet of the posterior wall. I the bernal sac. The treatment consisted in drivinging the size longit dunlify and frengs the cord. The anterior half of the sac as trummed: as the posterior excess was returned to the abdomen through the internal bedominal ring, and the opening was closed with portestings significant.

In none of the cases as there any diseason bet cen the testade and the bowel nor any vascular connection to the might be considered a plica wasculars with the might be considered.

Szersymki, B. Nerre Disturbances in the Abdom inal Wall in Appendicitie (Nervous Storrungen der Barchward bei Appendicitis) Politi per les

91486

The different evaluations of Head's 2000 x the right to abdominal deceases caused the author to draw in our conclusions on the bases of a careful actify of sexite, subscute, and chronic appendicutes Semory perception was tested by means of touch, pucking with needle, punching with the fingers, and the application of cold and hot test tubes, and the application of cold and hot test tubes, and the application of cold and hot test tubes, and the application of cold and hot test tubes, and the experiment of the body being compared with parts irre from the disease, the hypogatine repon with the expression, the abdocsen with the thorax, and the extremities. This examination was not made on very nervous nervous mesons.

rety nervous persons with aspendicitis antity (rg per cent) abord viriations in the sensibility of the skin within a report bounded above by the umblacial line laterally by the antenno aniliarly ince the spine, and the beginning of Poupart's liginoent below, by a hie three to a fingerbreadth below the umblaces and medially by the margin of the rectus. There were, bowever occasional variations from this rule, particularly in an upsear direction. Of the various retrief within the particular in the present of the control of the results of the control of the control of the control of the results of the control of the control of the control of the results of the control of the control of the control of the results of the control of the control of the control of the control of the results of the control of the

The uthor comes t the conclusion that hyper

esthesa is most common in acute and subscute cases, and hypersthesa in chronic cases With regard t reflex muscle tension be concludes

that the daturbance less in the motor section if the reflex arch rather than the sensory section. He therefore believes that Head's zones are not entirely dependable in diagnosis although they may be of some significance

White F W The Clinical Importance of the Chronic Changes in the Appendix Which Are Discovered by the Roentgen Ray Bedes If 5-5 J 9 3 clearing 55

As a preliminary to the determination of their climical importance, the author discusses briefly the various rocinites again of chronic appendicuts. This term he believes is more or less a missioner as

t refers not so much to a chronic inflammation of the appendix as t the result of recurrent previous inflammation which caused chronic functional distributions. The direct restricting ages in the appendix are tenderness, firstion, kinking, change in shape, become in position, lack of falling slow emptyling, become the state of t

While tenderness is not strictly roomigen sign, the roomigen examination permits of exact localization of such tenderness and if this connectes strictly with the visualized appendix it constitutes the best single sign of pathology. As regards filing, there is wider nature of opinion. The nuther believes that when the appendix is not seen, fulled can be said about it and that this fact justifies the conclusion that its luners is obtlierated or it is retrocaval. The nature of the filling, whether it is regular interrupted, beated, or segmental is not

definite critorion of pathology as it may be of purely physiological origin. Delayed emptying, is much over thirty-six hours or after the execum has emptied, suggests poor drainage and hence is noten-

tielly a source of drager

Fixation is Important, especially if Is find or one part of the appendix, the tip or median part, and crases habing and deformity this indicates adhesions from previous manimanters. Fixation or hisbing must be permissent, and not merely apparation to the permissent, and not merely apparation and the permissent part of the control of the permissent part is the permissent part of the control of the control of the permissent part is the permissent part is the permissent part of the permissent part is the delay in emptying and fermeration of contents have no of obtained particular and particular delay if constant. Likeway, accomploon posterior is applicant only if it is

Of induced using also complying of the altern with readness of the harmon med for twelves I went four hours or more is frequently the result of obstructive delay from adhesions, but there are also other causes. The gustre signs, such as speam of the pylorus and disodernm and stans, are very inconstant and unreliable. Incompetency of the lessociated ispancier has little reliation it is appendix and is not common in the absence of chrones are the successive and the common in the absence of chrones are the successive and the common in the absence of chrones are surviving the teleum, colon, and private organizations and the common surviving the teleum, colon, and private organizations are surviving to the common surviving the common survi

In interpreting the various rockines ment in individual cases on indications for operative interfer ence the greatest caution is essential. In an oper different group of page were always ative group found, namely comtant tendersess of the appendix steelf sharp kinks with firstion, marked delay in emptying associated with tenderness, and hestory of local pain or tenderaces. The diagnosis has been made chiefly on the beats of direct signs to the appendix riself or adhesions. The most suportant direct signs have been tenderness of the appendix. constant changes in shape, fixation, and abnormal nosition. The less important were the filling and emptying of the appendix and sams of fecal reading ABOUT HARTON, M D

Jackson, J. N. Acute Gangresons or Perfective and Supportative Retrocaccal Appendicitie South II J. 923 276, S.

The appends is found to be retrocated in about so per cent of cases. The sequelate of inflammation is an appendix so situated are quit different from those of the peritonizity placed appendix and there

fore the symptoms and the surgical measures retrained differ erestly.

The simplest form of retrocaval ryperiods has the usual measurery. The second waterly passes upward outside the colon, beared. It is retrocaven of the intered than or implace that the periods of the intered than or implace that the presence of the colon passes are presented as a retroperson of the centre and colon and in peritocaval retrocaval or the colon wall. The sold near the grid has peritocavan. The fourth type, which is rive, passes beneath the occum and according robot between the layers of the mesonolous, and is a time retro-peritoneal spreach:

Two stages of appendicitis are recognized () that in which the infection is confined to the appendix, and () that is which the infection has broken through the gut wall and extends either to the

peritorsum, the cellular trance, or the blood stream in the retroceroil appendint the peritoritie extends, primarily to the lateral or incubar peritorical forms and is ornally confined to the apper contact the colon, but many extend up toward the kidney or hierand pall blader or even into the lung. The author had two cuses in which the pas ruptured into bronchins

The cases with direct extension may have an abscess potnting over the shad crest the lumber region or extending through the cellular tissue down over the buttocks t the knee

In the fourth type the extension is closely assoclated with the origin of the mesocolome venus, and septic thrombo philibitis occurs. Inch may reach the liver where it may cause single or multiple harmens.

These severe complications are seen during the surfice serilar practice and represent failure of early diagnoss and inadequat treatment. During the last tex years Jackson has lead so such serious contributions.

In the first stage the symptoms are the state. As it were the locations of the appendix I the second they vary with the location. They may be divided int. () constitutional, used as fever rapid pilet, general depression, and laboud changes, and () local, which should be more cheely observed to order to locate the appendix. In the early stage the local graphosom of not vary with the six of the specular and are nothern non-Sec. Sec. or the stage that local control of the stage of the

 pentonins, which in cases of retrocrecal appendix, is imited largely to the outer aids and the back of the occum, (3) the evidence of continued infection, (4) shiph stiffness and distinct tenderates on pressure above the crest of the shum in the lumbar region

The treatment of retrocreal appendicts as the size as that of any other type. Early dispress and early operation are important. In cases of gangene or perforation, operation is usually done as some possible but as there we not the same acute danger as when general peritorius threatens, the pattern special resistance and condition are sometimes impored before operatio. by the administration of piecose and soids, protocolysis, hypodermocives, gasting lavage, and esemants for twenty four bound.

The McBurney incusion is used as it can be ex tended toward the kidney or liver. The general pentoneal cavity is walled off with hot packs, adacrons are broken up with the index finger close t the lateral wall and the appendicular structure is removed. When the appendix extends along the colon, great care is necessary to word injuring the latter After removal of the appendix its stimp as barred. The colon can be considerably infolded Proper drainage is often the key to success. A counter drain through a stab incise in the himber region will often be indicated. A large tube is used, and the patient placed in the Fowler position. A cognett drau is placed in the abdominal incision and, if indicated into the neives, and the wound is doed in layers. Hot formentations are immediately pobed t the ound to help control infection in the superficial layers, thus shortening the convalencence and lesseming the hability t weakness of the walls ith bernution MARCIN H HOMART M D

Reuffert Chronic Appendicitie and Appendictomy

(Appendict chronique et appendicectomic) Gyefr
el ekst 9 3 5

The literature indicates that many surgeons or percent of the literature indicative in making that posses of making and process of the makeritated (blaces a failure in so per cert of his case it releves the symptoms attributed to chrome approximates by apprendectory. Neither can be makeritated with other claim great difficulty in differentiating chronic and subscute psynchotic from painful mechanical and unfammatory affectors of the exercise, according close or onesettom. Typhological production of the exercise of the control of the exercise of the control of the exercise of the exer

nd reaction are rarely indicated. Rouflart agrees the Wather that the principal offender in all these conditions is the prendix, and that therefore in curous: prendictin with colitis, prolapse or didata ton of the crecum, et the first step should be an approachetom.

In the hundreds of cases of chromic ppendicates on which the author has operated in the last thirty years, he has had n failure bdominal pain, infection, outbreaks, and intomeration entirely disappeared after the appendictory. Also after refusal of operation in this condition be has seen many poor results, even death. In there of his cases in which there was a return of symptoms necessitating second operation he found new pathology such as returnersion of the uterus or adhesions in the pelvis, but nothing referable to the appendix. He therefore assumes that the therapeutic failures reported by them may be diagnostic failures. He observe at its easy to differentiate between appendiceal and colonic professional and colonic professional and colonic professional and the second colonic professional and colonic professional and the second colonic professional and colonic professiona

In conclusion the cases of two female patients with chronic appendictins who were operated upon are reported. Rouflart makes as short meason. Me to 3 cm ranning obliquely downward and inward from a point 5 or 5 cm datant from the anterior superior that spice and t a level with the spices. This can be converted into the Pfanensitel meason if an unforence condition is exposed when the peritoneum in opened. Kinnoo Strung Mills.

D Agata, G. Amputation of the Rectum and Total Prostato-Veskullectomy for Associated Neoplastic and Tuberculous Processes (Amput nose del retto prostat resculoisctoma per concominant processo neoplastico tuberrolare) Arch del de chr. 9 3, vi. 60

D Agata reports the hatory of a man aged syyears, in whom the anatomical and histopathological findings revealed the presence of an adenocarcinoma of the rectum propagated to the produts which was already chromically inflamed. Biological tests and the chancel manifestations of the inflammatory process left no doubt as to it tuberculous nature.

The coemittees of a tuberculous and neoplastic process in the same tissue as in this case is very rare. In the cases which have been reported in the literature previously the tuberculous preceded the cancer of vice vers.

In the uthor case the clinical diagnosis was confirmed at operation. On account of the extension of the neoplastic process, D Aprix and classical Lasinace total amposition of the rection and a prostato-vesselulectory. The segment of intestiline amputated theoretic large ulcerated neoplasm occamputation and a sagistial extension of the process the minimum and a sagistial extension of the process of the proces

The patient left the hospital four months after the operation in excellent condition. He was then able to retain even find faces, and there was no sign of recurrence. W. A. Bernya.

Bowing, H. H., and Anderson, F W: Th Treat ment by Radiation ! Cancer of the Rectum Am J. Rectional 9 3, 2, 30

The authors goe an account of the technique used and the experience gained in approximately 300 cases of cancer of the rectum treated at the Majo Clinic. The majority of these cases inoperable, and only a reasonable amount of place bo treatment was given. Some of them were recur rences following radical surgical procedures. In about twenty cuses a radical posterior resection was done after radiotherapy without any added sur

rical difficulties

The authors gi classification of the types of rectal cancer and describe the various forms of applacators, with illustrations. They discuss the techmore employed, the factors t he considered in the treatment of the different types, and the difficulties and reactions which are apt to be encountered

They conclude that in the majority of rectal neoplasms, radium has definite inhibitory and destructive effect and is a sluable aid to surgical

For the best results, an bdominal exploration should be made except in grously inoperable cases It is not essential to perform a colostomy in order to gh radium and rounizen ray treatment. If the case is grovely inoperable radium and the roentgen rays may be used, colostomy being done only if obstruction is unpendure

colouteury has been made the growth should be treated through the distal lone and when the growth can be felt digitally through the agast

walls, the vagina should be packed 1th radium Larly diagnosa is of paramount importance rectal examination should be made more fremently by the general practitioner. Some neoplum of the recture respond readily to radium and roenteen ra treatment bule others are resistant. Long survival

is possible even in untreated cancer of the rectum. The best method of radiation therapy is a combination of radium and rocatgen ray used as early as possible

LIVER, GALL-BLADDER, PARCREAS, AND SPI EEN

Gundermann The Pathology of Human Bile Secre-tion and Report on Pathologic (for Pathologic der menschlichen Gullenschreisen, mylich in Betung pur Polychola) Beit bin Chir + 3 CERTAIN.

The author mentions the fact that the quantity of bile obtained through a beliary fixtule in the beman being must be regurded as pathologic and does not permit any estimation of the physiological one tity The quantity of bile, urinary output, and find intake were det runned in a number of cases in which cholodochotomy had been performed Only those cases were studied in which the stools were achoic, practically all of the bile being led of through a solt catheter

The period of observation as the first eight drys after the operation Particula attention was paid t the influence of the matake of fluid upon the quantity of bile Rest in bed, because of the lack of body movement produced an effect upon the

blood pressure and circulation in the liver and further reduced the renal output of fluid to the minimum Timely in a series of cases the chloride content of the late was estimated in terms of sodrum chloride in order t determine the part played by the it er in sochum-chloride metabolism. Of thirty one cases, thirteen were found suntable. Nine of the latter showed an a crage secretion of 250 cm of bile in the first right days. The quantity of time varied from 900 t 350 c.cm. The total of both secretions fell noticeably below the find intale In some cases the differences were so great that water must he been retained in the body. Two patients daily secreted 500 cm of bile and between 750 and ,000 C cm of struce the fluid intake and total secretion counterbalancing each ther In one case the quantit of bile and urine as 100 c cm

while the intal of find was usually somewhat less The investuration therefore demonstrated that the secretion of bile is independent of the fluid intak but that the I tter has an effect upon the urmary output. The loss through bile indicates an unbalanced stat of the body high most be corrected through the subcutaneous insection of final, prefer ably the inferion of glucose During tary tion. the quantity of bile obtained through the firt Le a craged about 50 c cm in most cases, and generally did not reach the quantity of urns passed in the same period of time. The determination of the chlorides of the bile showed that bile from the gall bladder kus kurber content of sodrum chloride than that from the liver and further that the sodum-chloride content of bile is very constant and independent of the amount of the salt takes in the tood

An anomalous case in these investigations produced more bels alone than the amount of fluid taken in In this case 8,500 cm of fluid ere introduced rate the bod and 0,000 cm ere lost through bile and mine. Of the field last . Soo cem ere urae and 8 oo m ere hile There fore the bale secreted as only 200 cm less than the entire find intake. The loss of weight during this time was 2,500 cm. The bile as strikingly light in color and than. As the secretion of bile us prob bly as great before the operation as after it and the quantity of urine excreted before the operation was large, I seems justifiable to assume that in some persons there is double circulation of ter some of the wat ingested reaching the

natestine through the li er and bile before it is excreted by the kedners

thor' opinion the ater content of the food is not essential for a concentrated flow of bile Numerous other factors such as obstruction, are also of little importance. The effect of hormones as us the causain relationship between cholangitis and increased bile secretion is questioned. In any event it is fact that here we have true polycholia produced by an unusually profuse exerction of water. The thor concludes that distinction should

be made between the terms polycholus and

The latter indicates a condition of pleochromn the liver cells in which a highly-pigmented, thick, ater poor bile is excreted, whereas polycholis means the secretion of a thin watery bile

HAUNANE (Z)

McMarter P D Broun, G O and Roos, P Studies on the Total Bile III On the Bile Preseure Obstacle t Changes Caused by Pressure Obstacle t Secretion and on Hydrohepatosis J Exper *∐ա*; 93 xxx\n,685

By experiments on dogs the authors found that in bile hich is secreted against an bnormally high pressure, as during partial obstruction, the pigm t cholat and cholesterol utputs are cut dos so much more than the find bulk that the concentratio of the inhitances per cubic centimeter of bile is notably lessened. The fluid obtained it the greatest pressure compatible with secretion contains only traces f the typical biliary constituents. The relationship of these alterations in the bil t the consequences f

partial biliary obstructio us discussed An analysis of the liver changes following biliary obstruction brings out their essential likeness to the changes that occur under similar circumstances in plands in general and the kidney in particular. The major phymological factors concerned in the develop ment of hydronephrous and in the liver changes after behavy obstructso are dentical. It is suggested that the term hydrohepatosis be used not merely to designate the liver condition, but to indicat the principles underlying its development. In clinical cases of lalury betruction the likeness to hydrone parous a often hidden because of the activity f the gall bladder which renders the stame bale dark and thick There is the concealed hydrohepatous differing merely in the character f the duct to tent from the manifest hydroheratous with white bil

buch as found when the gall bladder fails to act George E Benner M D

Breun, G. O. McMaster P. D., and Rous, P. Studies on the Total Bile. IV The Finteroheratic Carculation of Bile Prigment. J. Exper. Hel 9 3 xxxvu 500

The authors experiments were carned out on dogs permanently intubated for the cooked liver f the sheep or ox, the bil for several days thereafter was from instead of the previous vellow brow

The change in colo f dog bile after the feeding of the green bule or the liver tissue of herbayors as no more than suggestive in this connection appearance in the bil of cholohematin after the administratio of the pigment by mo th demo strated conclusively that substance nearly related to biliruhan is absorbed in the intestine and excreted by the liver

The results of the feeding of dog bile leave no doubt that the bilirulun output was increased there by in many instances. One reaso, why i was not always increased was that circumstances were frequently unfavorable to absorption from the intestinal tract. The prement increase is certainly not du to flushing out by the quickened bile stream A relatively small liberation of hemoglobin by blood destruction would account for it. It was in this way that one in estigator explained an increase be observed after the feeding of large quantities of bil

salts to fatula does In one of the authors dogs an verage of approxi mately or gm of extra pagment appeared in the bile on each f eleven successive days. This might have been caused by an extra destruction daily of 6 t cm of blood with 80 per cent hemoglobin ty four hour specimens from dogs given large amounts of the cholate of dog bile, another in estigator found no increase in pagment. It is possihi that the pagment increases observed by the authors were not due to a greater total output of the substance b t were the result of recurring temporary alterations in the rate of elimination such as follow the diministration fearbohydrates

The proportion of bilirubin presumably resorbed in their experiments was sometimes negligible and sometimes high. In one dog it amounted to 7 mgm f the 7 mgm administered daily (4 per cent) That bil feeding is of benefit to man and ther animals loung the secretion by fistula has long been arknowledged Intensely numbered patients may hy, for years, but if, following an operation, all th bile escapes by the firstula, the loss of weight is very rapid and death may soon result if the patient is old

thors summarize their findings as follows ть In dogs fed the green bile or the h er tissue f herbayora, the bile secreted later frequently becomes green, changing from the previous yellow brown It hen sheep bale to taining cholohematin is fed, the bil comes t co tain this pagment. When dog bile in quantity is given, a well marked increase in th output of beliruban by the liver frequently follows Taken together these facts indicat the presence of an enterohepati circulation of bile pigment

Grouce E BEILLY M D

Michie, H C Acut Catarrhal J undica. Ilil Serge 93 hr 300

The author classifies jaundice as () consenital hemolytic, icterus neonatorum, and () acquired jaundice. The latter incl. des intorica tions f known and unknown origin, obstructive and chemical jaundice. This report is based upon a study o cases which wer dimitted to the horoital

from the American troops on the Rhine during the period from August, o to July o the time all jaundice cases were sent t a special ward f intensive study The routine procedure consisted of thorough

physical examination and investigatio as to yphilit infection, the stage of this discuse if it was present and the treatment that had been received. Record was made as to the degree f staining of the conrunctive, coating f the tongue, and amount of bale m the stool The mental condition was noted, and record was made as to subjective symptoms such as beart burn ball in the stomach, "distress after eating, etc. Further examination included gall-bladder drauser a functional test of the liver (hemoclastic crass) and an X-ray extrastron of the gastro-intestinal tract whenever indicated

The other describes in detail the technique of examination and the apparatus used. The cases studied included three of acute yellow trophy of the liver. These resembled the cases of acute catarrhal paradice chinically the only difference being one of intensity The number of cases of saunches with syphilis was bout half that of cases athout syphilis I tients with syphihe were more amenic than those without, presented more symptoms referable t the

liver and were saundiced longer

The importance of alcoholism, especially the drinking of sour wines, in the etiology of these cases could not be definitely determined as the histories were unreliable in this respect, but food, especially the esting of a certain kind of samage, played an unmistal able part as among the officers who did not eat this kind of food, there ere no cases of saundsce whereas every soldier ith issuadice stated that he had eaten it regularly

There was no seasonal variation in the number of admissions Culture of the bale and all other bacteria examinations were negative. While the was found in the upper respiratory tract in a certain percentage of the cases, all uncomplicated cases were afebrile

Fractional examination of the contents of the duodenum gave evidence of the presence of gastric or duodenal nicer or chrome gastritis. The most striking acid curve was that of cases of deodenal ulter. This brought out the fact that when the total free acrd was over and the second or third duoden al specimen showed a total acidity exceeding go per cent of the total gastric acidity doodenal alcer was present. This finding was made in 80 per cent of the cases of picer of the duodenum and was not garde in any case without evidence of ulcer

The treatment consisted of the usual calonici purge followed by the daily diministration of 14 oz of sodium phosphat I some cases mixture of by drochloric acid, pepsin, and strychnine was given Others received quinine Patients with ulcer or

modified

gastro-intestinal irritation ere given Suppy treatment In summariting the author states that acute catarrhal paundice is not disease but symptom and the only chancel difference between it and acut yellow atrophy of the liver is difference of degree There is no apparent obstruction of the common duct. Bacterological examination of the bile is negative. Ninet per cent of cases exhibit disodens tes. It is evident that certain diets play an important rôle in the production of jumphes, and it is probable that the disease originates in the stomach and doodenum, affecting the hier accordantly The toxic may then be secreted from the li-er through the bile and become resorbed by the intestine, cooms circle being then established. Witters J Person M D.

Ritter A. The Results of Ligating the Hepatic Artery Chestrations on the Functional Ex amination of the Liver (Ucher die Feigra der Lagatier der Arteria hepetica. Bestrag mer Funk toerpractang der Leber) Unt L'd Chr .

Following description of the anatomy of the blood supply of the liver and stomach, buch as illustrated by sketches, the author mentions the chancel cases of higation of the hepatic artery or its beanches which has been reported in the literature (twenty sine cases, three of them personally ob served) and discusses the prognosis and chincel aspects follow ng this procedure

As regards the set of the legation, the common bepatic artery is the least dangerous more the collateral curculation—the right gastric and gastroepuplose and the superior panetreaticodeodesal erternes matter sufficient blood supply Follow ing ligation of the arteria hepatica propria or of the communes and its colleterals the progress is very unfavorable. In ten cases there were seven deaths One of the author' patients survived only because an accessory vessel as present between the stump of the riera benatica communis and the arteri bepatics proprie, dutal to the ligation. In the two other cases, which ere operated upon by the Kehr method, partial necrosa of the liver supervened

The progress of agretion of the right branch of the hepatic artery at somewhat more favorable (mortality about 50 per cent) The mortality of ligation of the left branch is 70 per cent

It is of interest that in the author its cases in which the operation was ell borne the function of the liver was impaired in spite of the fact that icterus was not observed. Even after the third eek distinct disturbance of carbohydrat and protein metaboban was noted, finding supported by the galactose test of Baner and by Abderhalden's method of ammo-ecod determination. This also explained certain disturbances in the postoperative period

The author essumes that there is serious damage to the lever if following hightion of branch of the bepatic artery the amino-acid extretion is four or five times the normal figure. If beheves that when the patient condition will permit it, second hourstomy for the excessor of the damaged lobe should be done several days after the functional tests of the liver

Mann, F C and Magath, T B Studies ett the Physiology of the Liver IV The Effect of Total Removal of the Liver After Pascrea tectomy on the Blood-Segar Level Arch Int *⊻க*ிர் ந்து ஊராரா

Previously reported studies by the utbors on the ph sology of the liver demonstrated that

A characteristic group of symptoms followed by douth develops after total removal of the liver These symptoms are associated th decreasme blood sugar and the various symptoms ad

death occur t definit blood-regar levels

- 3 The injection of glucose after the development of symptoms bolishes them and restores the animal to normal
- 4. If please is administered after benatectomy in amounts mifferent to naturate the blood upar led at or bore normal, the characteristic representation of the control of the develop and the animal lives for variable period. I time which is also ay much longer than if glacose had not been diministered, but of following the development of a totally differe t group of symptoms.

These striking and very definit results proved that the maintenance of the normal level of blood sugar is dependent on the liver. They showed also that there is a certain entical level. I blood sugar bloow which it is impossible for the organism to live. The liver thus assumes renewed importance and undoubtedly has with function as regards

carbohydrate metabolum

It has been known for a long time that pancrea tentony causes phroman and hyperhycemus. It is evicant, therefore, that the two glands liver and pancreas, have a reciprocal cito on the concentration of squar in the blood. When the hver is removed, the singer increases in the the pancreas is transvered, the singer increases in the particular of the particular of the pancrease in the other pancreases are the particular of the pancreases in the determinance of the particular of the pancreases of the presence of the large.

The study was made upo dogs in which the hver was removed by a technique described in a previous article The pancreas was removed at various periods of time before removal of the liver It as found that when the two glands were removed at the same time, the resulting condition was th same as that following removal of the hver alone When the liver was removed from twenty four to ninety six hours after pancreatect my, the blood sugar decreased quickly and the same characteristic symptoms developed as after hepatectomy but at a higher blood sugar level. The injection of glucose restored the animal to normal but the effect was transitory. The t tal removal of the pancreas and partial removal f the liver in an animal in which an Eck fistula had been made was followed by only sight or no mercase in the blood sugar

These experiments prove that the presence of the liver is absolutely necessary for the hyper gyreenia following pancrestactomy

Parsel, G. M. and Bockins, H. L. Observations on the Velue of Phenoltetrachlorphthalem in Estimating Laver Function. Arch. Int. Med. 1925, 323, 523.

The authors summarise the work which has been done up to the present time pon the value of phenoitetrachkerphthalein in estimating liver function and draw the following conclusions

Phenolistrachlorphthalein is an ideal substance for estimating liver function, as in health t is eliminated solely by the bile In health the forty-eight hour output of the

dye in the faces is fairly constant
3 The time I presurance of the dye in the bile is
of decided importance, but I cannot be determined

by the faces method

4 The dye output decreases as the hepatic
parenchymal damage becomes more extensive

The recent work of M Nel, Aaron and others with the duodenal tube opened up new field join unvestigation. The authors were stimulated to go on with the work and to attempt the development of a technique which would make this test comparable to phenoshulphonephthalein kidney test. Fifty cases were studied.

The duodenal tube was introduced into a fasting tonach and gavage performed, small quantity [8] as the being left in the stomach. The tube was then passed on into the duodenum and wate was given by mosth to insure—steady drup [5] bill stained fluid from the tube. The dye was then impected intravenously and the bile collected in—solution of codum hydromide. The time of appearance of the first faint colo and of the manimum colo was recorded. Each half hour's output was collected for two hours and the amount of d)—recovered was estimated by means of a colonization.

The conclusions drawn are as follows

A delay in the appearance time of the dye was proportionate to a decrease in the output. The quantitire estimation, if the dye output in two bours is of more importance than the recording of the first appearance time by t both should be considered. When the hver was grossly pathologic the time

f ppearance of the maximum color was twice as long as in normal cases and the dye output averaged one eighth of the utput in normal cases

3 The output f dye in normal cases varies with age. The younger the subject the greater the amount of dye recovered.

4 This test should be of distinct value in cases in which the functional capacity of the liver is only slightly disturbed and when it is chincilly negative

t ther methods f examination
5 The technique is extremely simple and can be
performed with case by the average chineman. Com

mon duct obstruction of course interferes with the test C J General, M D

Kaiser F J The Movable Liver and Its Successful

Treatment: A New Method of Based on the Funches of Deprevant the Liver from Below and Based on the Paraches for Section 1997. The Paraches of the Appearance to Wilson Bendeling of the Appearance to Wilson Bendeling of the Appearance of the Paraches of th

Hepatic ptons is of the following two types. The purely local condition due to low cred intra abdominal pressure from enlargement of the lower bdominal cavity following pregnancy the removal

of tumora sacitic fluid etc. These are the cases i which surgery is indicated z. The general splanchnoptosus amociated a th the congenially arthenic balains (persons a th

flat thorax, light bone structure heart leakage, a nerrow aorta, and an unstable nervous system) These are the cases in which it is important t avoid operation. The treatment aboutd be con-SCITALITO

After discussing the diagrants and the consents. tive and operative methods of treatment bitherto m use, Kaiser describes a new surgical procedure which is based on the principle of supporting the hver from below. The technique is as follow

An incluon is made in the median line of the abdomen, the luxumentum term is divided, and the liver is forcibly put back into position. The right side of the becomised well is then forcibly raised and a horisontal increon is made from within out ard, beginning three or four finer-breadths from

the spinal column and continuing up to two finger breadths from the median line this meason begins postenorly at bout the level of the tenth nh and extends antenorly to the math rib. It is carried through the peritoneum and fuscia transversaha as far as the mineulature, and then far enough down ward so that a pentousal pocket may be formed by forcing agice the divided layers of the musculature of the dusplessym and abdominal all with blunt Instruments. Sight homorrhages are arrested by the subsequent plugging action of the liver and are favorable to close adhesion During the separation of the personnum, care must be exercised to prevent pneumothorax

The lower segment of the right lobe of the li er a placed in the pocket formed in the pentoneum As rule t will remain in this pocket without fur ther fixation, but if it is thought best, a few sutures may be med to fix the edge of the pocket to the often thickened capsule of the under surface of the

part prevent recurrence after the ttachment of the liver a plastic operation on the abdominal all se asually necessary. The uthor makes an increasing from the emiliorm process over the navel to the symphysis, desects back the skin and subentaneous fat for the weith of the hand on both sides, and divides the layers of the abdominal wall in the median hoe With strong interrupted all sutures he then fastens the right layer of the abdominal all to the inner surface of the perstoneum of the left side as far as possible taking in the sponeurous, and brings the left aponeurous layer over as far as possible t the right and attaches it with interrupted sutures t the outer surface of the spontarous Superfluous skin is then resected

Manson Bahr P., Low, G C Pratt, J J and Greek, A. L. The Treatment of Liver Abscess by Aspiration Lencel, 013, cci 941

The authors describe simple procedure which they believ should replace the classical open op

eration for liver absence. Aside from its attending risks, the open operation is associated with risks of accordary nature Secondary Infection of the

sterile abscess cavity often follows with reactions sinus formation. The mortality of liver abaces remains ligh Various factors influence the death rate European patients have a better chance for recovery if they are operated upon in England than in the tropecs. The mortality is lower in haronesis than in natives of the tropics because Europeans apply for treatment as soo as the disease is man loved

Rosers in his Bowel Diseases in the Tropics (925) states that the mortality of hver abscuss. even the anti-emorbe invalment, is still 50 per cent, while in the cases in which the closed method of treatment is used the mortality is only 14-4 per cent Assuration of liver abscess dates back to \$18. when Annosley advocated drainage through a

troca In 87 Maclesa executed the postluroush Bowditch symmet and gave so to ex er of thereo. daily Jessett in \$85 reported one case which was asturated autien times for the removal of 400 or of pur Rogers advocated repeated ascuration and the introduction into the cavity of solvetion

In this paper the authors outline seems of fifteen cases which have been tader their care during the past three years. Asperation was done in all, and in some of them anti amorbs treatment was given

All recovered The technique was as follows 2 A Potain asparator was used, the needle being merted not more than 314 in

An extra supply of tubing as kept in reserve in case the fuling used became plussed during the drame

3 When pus as found at exploratory puncture it was thoroughly and outchly drained

4. When the pers as too thick for assuration. Manson trocar and cannula ere used

The sate chosen for dramage was the noint of greatest swelling and tenderness if none was present, either the eighth anterior or mid sxillary interspace

or the epignstruc rout was chosen 6 Not more the three ponct res wer made t time without amenthems, if an amenthetic as

used, an panetures were made 7 As much pos as possible was evacuated at one

Repeated punctures came bittle bemorthage. In most case, general assesthess in preferable to local anasthena. For the induction of local anesthesia

per cent novocame with adrenahn is best Of the series of cases reported only one had a recurrence of the abscess this developed nineteen

months after dramage of the primary abecess One case in this series, although treated in the same sy as the others, showed marked variation from the moral course after the assuration. The patient was subjected to three operations and as obherd to remain in the hospital for my months In this case accordary infection was probable

The average length of time in the hospital was 20 8 days Anti-amerbs trestment aus empl yed with the ameration. It value is unquestioned although the use of any substance locally in the aboves cavity we proved unecessary

In their conclusions the authors make the follow ing statements with regard to the diagnosis

I Liver abscess may be present when least expected and when all laboratory tests and I

aminations are negati e a Lencocytoso is not always present and when

it is present, is usually low Pain in the right shoulder is often the most

promuent symptom 4 Liver abacess may be present without any

tenderness over the luer The entamorbs may or may not be demon

strable in the asperated pus, but negat e findings do not necessarily move to absence 6 The \ ray may be of considerable alue in

The coordingons dra n w th regard to the treatment

are as follows L Enber general or a local angesthetic can be

med depending upon the principl conditio and the surgeon a preference The entire abscess abould be drained it one

time if possible

3 The operation is followed by great relief and but little or no shock

4 It is rarely necessary t drain the bacessecond time but if necess ty drainage may be repeated

5 Large doves of emetine in the form of emetine bearwith sockele given by mouth re-essential as this dreg helps to clear the sourt f infection from the board and to prevent re invasion of the liver by the extenuebe II M CARP M D

Ladles A. I. Li er Abscessi Report f 100 Opera tions. Sure Ginec & Obst a 1 xxx 116

The thor reports a series of oo cases operated upon for hier abscess, the majority I shich he beheves were amorbic abscesses. The gre ter num ber were well localized large singl ab-cesses a th dense fibrous walls

The technique of operation usu lly employed included as meason parallel th the ninth rib extended outward from point in from the right contail rusqua 1 portion of the rib resected the di phragms notted the li er poved and blent arreors inserted 1 the viti through a small increson in the li er capsule 1 1 upta present ere broken down by blant desection and the abscess was ex cuated as comp tely as possible and packed with graze \ ttempt wa made I suture the hver t the chest all The pleura as encountered in 1 fen cases and in t eve was vewed a thout harmful result

D la solution ad h pertonic salt solution, will for umgation fier the removal of the gause ruckl g did not hasten beahng. Emetine as used

in confunction with the surgical drainage author mentions the importance of not allowing the drawage opening to close too soon and states that because of the danger of secondary osteomychtis of the ribs, which developed in three cases, the ends of the draded nb should be covered with percestrum The mortality in the series reported was 10 per

Ludion states his belief that the danger of a tilation has been overestimated, and that in a series of cases now under observation the aspiration method combined with the use of emetine is being curried out with promise I good results

SCHOOL L. KOCH, M.D.

Monae E The Surgery of Gumma of th Liver Zar Chra pe des Lebergamus) Beir

Caur 0 3 cz ni, 48 The a thor reports a case in which a gumin in the

meht lobe of the h er of woman 17 years of age was exceptionted through healthy toute. He then discusses the frequency of syphilitic diseases of the is er and their linical aspects and treatment especraft, the indication for so pical interference

dvocates a Wasserm on test in all cases of doubtful turners in the uppe part of the abdomen. If the diagnous then remains doubtf I exploratory laparotomy brops, and microscopic examination are sadicated. Threatening or already present ighboring organ due to contracting process in the remon of a gumma or a histologically doubtf I tumor indicates removal. Under f vorable uro matances, will encumacabled, ped neglated. eummatous tumor may be removed radically If hen this is impossible specific treatment should be g, en I kn .corosous (Z)

Denáchau, D., Fruchsud Brin II., and Atoulon. Four Cases of Tertiary Syphills of the Pseudo-Surgical Type. The Im-I trer of Liver of Frenco-Surgicus 17pm, 10s in-portance of Pain in Turthry Hepsilits (Quaire cas de syphils tertiaire du lose à forme pseudo-churgosite De l'unportance de la douleur du l'hépait tertuure). Ball et mêm See mill à hip d Per 933 mme, 556

The authors report fou cases of tertiary syphilis of the liver in which the diagnosis was difficult and surgical intervention was considered or done Laparotomy was performed in two cases. One of the to othe patients refused to submit to oper ation and the other as a poor surgical risk

Only t o of the patients ga e a history of syphilis and only to had poutry li assermann reaction The bepatic lesson in the two cases with a history of sphilis occurred from three to seven years after the strittal lesson. In t o of the cases there was an irregula f ver for several ceks but this subsided after the institution of anti-locile treatment. In three of the cases the h er as greatly enlarged In one case there was a tumor in the left hypochon dram which regested a hydatlif eyet of the spleen In three cases the pars was intense

In all cases, arsenical treatment, begun as soon as the diagnosis of arphilis was made gave excellent results. Roscor Jamos M D

Hartmann Wounds of the Choledochus (Riessures accidentelles du choledoque). Bull at min Sec de hie de Per o 3 six 540

Hartmann reports the case of a patient who was after a carefrent health t elv years after a sent to-end sturer of the choledocker done by Gowet, and cites also a case in his own practice, that of a patient he was in excellent health for ten years after reconstruction of the common duct.

Injures t the chelefochm occur most frequently during a choler-stertomy which is begun at the ducts but a few have occurred when the funding of the gall bladder was detached fazit. The author emphasizes the importance of nobaling and identity sig the different elements of the bilary tract before legaling and cutting them.

ROSCOR JERSON, M.D.

Slocker La Rosa, K. The Artificial Common Duct (FI roledoc artifical) Cles y lab 9 1 1, 4 7

In Spain the number of cases of biliary duesso coming to the surgeon is constantly increasing because of greater accuracy in the diagnosis and increasing confidence in the results of operation

Slocker reports cases of obstruction of the common short, as which \text{\text{tr}} \text{\text{tr}} tends a secased and sutured, subsequently become retracted and necessitated a second operation. I the secondary operations Slocker formed as a trafficial common that by means of a rubber tube. This tube acted as

distor soltened the issues in its recently assured as a framework for the restoration of the incircle common doet, preventing contraction of the inner. As stemes of the entitle of the duet is pit to be caused by caken by a distoration due to fection, the ripber tube should be introduced as faras the immess of the doorleams and should be left until its experted symmetric many about the left and its restoration of the doorleam and a should be left and its restoration and should be left as the same the doorleam. Then its purpose is fulfilled as these suptor causes the foresteron of a doorleam furthal

W A BIDDINA

Apperty F L and Cameron, O A New Test for Fancrenite Efficiency: As Aid to the Diagnosts of Call-Bladder Disease and Certain Obscure Dreporates. Hel J Australia 9 L. 5

The new test reported was desired! I estimate the shall probleme; power of the pacteres, now of the most unportant functions of this organ. The silked is necessarily abstractly by thoma; the fact that gastne sanday is normally limited by refus of paccessive shall from the doordorns and see already and the standard or the stonated is resembled by the refus of the stonated in several could by their refusit. The setual test is carried out as

A Rehfuse tube is passed and the fasting contents of stomach are removed. Two hundred and fifty cubic coefficients of warm. 4 per ceal hydrochience and far then introduced rate the stomach stand 5 ccm anaphea for supersisted every fifteen motores until the stomach of a cuby of the suspice are titrated for free axed and a cuby of the suspice for the results. They and unit-cube grant of posture blearboaste dissolved in water are present to solve the development of headsche at the completion of the teal. 1 came 1 purchasine defect the rat of metaphasis as prestity reduced.

This test has been curred out in an cases. In some except one of pyloric obstruction did it had to indicate pasternets officency. The others do not claim that it give any more complete information regarding pasternets (function than other tests, but ad ocal its use in conjunction with other tests for the diagnosis of obscure dyspeaks;

Rose W Arzerse M.D.

Peutz, J. L. A.; The Differential Diagnosis of Pancreatic Lithians (In Information of Pancreatic Lithians) Desirch and Related organics, 128

For the diagnosis of pancreatic disease no one method is specific, and even if the combined one of all the most modelout may problem still remain fronts does not agree with Wallis that the presence the contract of the contract of the economic of the problem still remain fronts does not agree with Wallis that the presence of the disease of the economic of the problem of the economic of the problem of the economic of the contract of the economic of the economi

extractory function of the princrias, particularly the regard to the ferment content of the duodensi more remain the best standby in the diagnosis. The diagnosis of paincreatic calculus is difficult because these like gall stones, may not cause chincal symptoms.

With regard t the differential disposes Petra segres with After of cities as eguidance symptoms intermittent pain in the gastric region, the province monting of his, resistance in the left repression and menopastic regions, possibly concentration and menopastic regions, possibly concentrations and resoption of the said protein The diagnosis of pascrication calculated, and the agine of faulty digestion and resoption of fait and protein The disposition of pascrication calculation can be established only by exclusion and then only ith consideration reset. Therefore, the protein of the consideration of the calculation of the distribution of the distribution content of the blood of the pascrication of the distribution of

According to the suggestion of Thilorin, on Kern and Whener Peutz used plocuspone to stimulate the secretion of the pancreas in young girl to leave to the pancreas calcult, between girl to be the percent the stone could be forced out or because of obstruction to the secretion, the dust take contrast of the blood would show as increase

The latter was the case. As the reentgen-ray plates showed small shadows in the region of the paners, the disgnosis was apparently strengthened Operation disclosed small calcified mesentene lymph nodes.

In second case that of a woman 77 years old the heavily calculed wall of an aneurum f the spleme artery which was shormally tortinous and ladden by the pancress lend to the erroneous diagnoses of stone. Princ. (2)

Summonds, M. Pancreatic Lithiasis (Ueber Lithi ses pancreatics). Fortschr. d Geb d Roenigen straken 9 3 xxx, 8

In the roentgenograms of number of autopay specimens f the pancreas Simmons found very datinct hadows of pancreatic calcula. From this he dra the conclusion that pancreatic calcula might possibly be roentgenologically diagnosed during the contraction.

In 36 000 utopsies Simmonds found pancrea be stone formations in anietten. Fifteen carefully studied cases were those of men bet een 34 and 57 years of age art had been alcohol didets and must had been diabetic. Colics had been present in only to cases therefore the diagnosis.

ss sot made during life
As result of the tone formation, chronic catarrh
with pancreatic durit developed, the ducts be
coming thated and falled in the stery micros or
perchant contents. This resulted in a diffuse in
and final destriction of the stery micros. The state of the
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Kahn, M. H. The Diagnosts of Spicen Function Am J II & 9 1, city 4

The histologic details of the spleen are important as an indication of its function. The spleen simuses are a dense plexus of capillary spaces. On one side they are in contact with the arterial capillaries and on the other with the eins. It is assumed that the blood entering the pulp from the arterial side must pass through the spicen sames t be led off through the veins. This transmigration is permitted by stomata in the salls of the sinuses. The capillaines of the spleen therefore re either in contact with the sumuses high in turn are connected with the veices or end directly in the pulp in contact with the pulp cells. The hemolymph glands are special type of structure closely related to the spleen. After plenectomy they increase in size containing many large red blood cells free in the meshes of the retac them and filling up the lymph channels between the follocies

The parenchyma of the sphere consists of mass of cells. According a their morphology we thout reference to their origin the notices of pulp cells are () small monouncies rlymphocytes, () mononu clear polymorphomicles and multimoclear leurocytes, (g) nucleated red blood cells, (d) matures red

blood cells, (5) large cells enclosing red blood cells or pigment granules (phagocytes) (6) free pigment granules, (7) giant cells with megacarpocytes occurring only in young animals, and (8) blood platelets. The large leacocytes (7) are most numer ous. The lymphocytes (7) are next in number and th phagocytes (8) are there.

in paragovies (y are turn It a possible that the majorjanan follicles are the physicological place of origin of the functionating cells produced in or of origin of the functionating cells produced in of the functional produced in the classification of the functional produced in the function of the functional produced in the follocks, the pulp elements remaining unchanged until after a much longer exposure. The different reaction if pulp and follicle in the leukerous also supports this theory. In my eleman, the pulp those hypertrophy whereas in the lymphatic form the follicle shows is perturbable.

The determination of the various functions of the spiech has been based on (1) cytologic analysis of the blood, (1) chemical analysis of the blood, (3) chemical analysis of the blood (3) the resistance of the red blood cells (4) the relation of the hemoglobin to hematin and bitary pigments (5) the relation of the spiece to iron metabolum (6) the effects of spiece cropping (7) the effects of spiece freding (8) the effects of spiece changes and (6) the chincal signs of functional disturbance of the spiece.

The functions of the spleen are enumerated by the thore solforns () blood formation, (s) blood destruction (s) ble in iron metabolism, (s) a regulating influence on the blood producing organi-(s) function concerned with dispession, (s) a choiseterinogenic function (7) internal secretion and (8) detonication

Blood femations. There is no doubt that the spicen is a leuroprotect organ. The vencous blood of the spicen shows many more (seventy times as many), white blood cells than the blood of the spicene artery and many more than that of the venn of any other organ of the body. The number of polymorkers is greater in the spicene venn than in the ritery whereas greater in the spicene venn than in the ritery whereas the spicene of the spicene is the spicene of the spicene folloide, and the fymphocytes circulate from here through the red poly

Blood platelets are not present physiologically in the liver lymph glands, or bose marrow, but are found in the blood channels of the spleen. Following splenectomy: remarkable norcesse of these elements takes place in the parts mentioned.

The intramescular lajection of epitasphum contrast the spleen one that F ray's adormaln test for the hemopositic function of the spleen consists of the subcutaneous spection of it mpm of adersalm It is assumed that normally a distinct increase of lexocytes in the perspheral circulation with relative lymphocytous takes place in twenty munites in one hour there may be a still further increase in disease of the spleen the increase of electropic is algalitor at about and there is no relative lymphocytoms. This reaction is negative after attroution of the spleen in does

Bleek desiración. Durategrator, of the cults by ingraciatios avithost foso i homopoloras sia lab they are still circulating has been found. The sha these cults in the persphera blood and the pictor of the control of the persphera blood and the pictor of the constant presence in the spice of an accumulation of polithcytes which are subdurding and of inferroptris, and the presence of these elements in the circulating blood mehant that the red cells dauppen in part t least by furnamentation.

One normal function of the splem therefore, is the selection of the red blood cells which are to underso destruction and of those which are to con-

tinue in circulation

The relation of shience function to blood destruction and saundres When harmoglobs is set free in the portal circulation larger amount is held by the over and converted rapidly int bile nument than is the case when it is set free in the general circulation. Under the former conditions, everloading of the liver with bile nument occurs more march, and saundace is more ant to develop. This merbanical influence accounts for the leacned tendency after splenectomy to the stunder which follows blood destruction due to hamoh tic agents. Il bether the spleen is an circo factor in destroying the erythrocytes, or hether t play merely a passive part as a place for deposition of disintegrating cells, there can be no quartion that in this origin. I ree number of cells undergo their final disintegration after the action of hemolytic possons. The hemoglobin there bberated passes by the portal system directly t the hver When the spleen is removed, this disintegra tion occurs in other parts, notably the lymph nodes and hope marrow and the hemoglobin passes, not int the portal, but int the general circulation. from bleh it reaches the liver more gradually and in more dulut form

In hemolytic jumbes there is excessive fragmen tation and destruction of blood in the splem in a system because the circulating erythrocytes are ngosually framile. There is however no bile in the orane, but believely as found in the blood and probelin in harge amounts in the stools and the urine. The bone marrow shows signs of hypertunctioning One member of family with this disease may have merely enlargement of the spicen without jaundica or marked aniemin, while another may have an en larged spicen, amorner, and urobinogeneria but so saundree and third may have all of these The enlargement of the spiece may be work hyper index of the gravity trophy The jaunches is not of the condition

The rike of like place us were socialized. Chee after beheves that the source of engin of the iron crossle tions to distribution is the body and its output. He therefore speaks of an excretory tissue are an assumitative tissue. The skin, kere and kid mey cythelium he places in the first class and the mearcophylege or Kupler cells of the spleen and here

the endothelial cells of the skin, and intersuital penviscular cells in the second class. These he names siderocytes. The sphen serves first as storehouse for saderocytes and second to stimulat the activity of siderocytes in other organs of the hole.

The repicting sufferent files place on bindproduct greens In soons united a yet superparted by the product of the product of the organ, steadying the factors which direct normal production and destruction. Stradomaky second: I do have demonstrated that the splece has 1 followed have demonstrated that the splece has 2 followed have demonstrated that the splece has 2 followed in this hours marrow and strengthing across on crossing destruction of these calls. Normally these crossing destruction of these calls. Normally these reasons destruction of these calls. Normally these marrow produces unbounted quantitates of red for and their quality determines. The uncertaint and their quality determines The uncertaints.

prediction of what cells or destroys those that have peaced their uncefulness.

The further of the flow with report is of general A definite perhapsogeric functions of the spiken has not been demonstrated. The relations of the spiken to reache necessition is probably merely vasimist the spiken to make necessition in probably merely vasimist the spiken of the tail unity to the

removal of some factor that either restricts the

enstromient circulation Internal secretion. The hypothesis that the spleen produces an internal secretion is supported by (1) the changes in the crythrocytes after enlocectomy () the modification of the blood picture in hyper please of the spicers which, in some instances t least, b ameliorated by splenectomy and (3) the specific effects on the red blood corpuscies of the meetion of soleme struct. The chief function of the spleen is the removal from the circulation of the dism tegrated erythrocytes the spleme cells elaborate this material, producing an internal secretion from either the strom or pigment portion. This internal secretion reduces the resistance of all the red blood corpordes, the effect amounting t actual destructage of the older cells. Finally this internal secretion possibly after modification by the liver stimulates the erythrogenic function of the bone marrow and

is used up in the formation of new conjunction.

Determining function. The sphere is derived from
mesoblistic tissue and is probably concerned largely
with the filtration of certain substances from the
blood, the predict of its activities being delivered

to the bree through the spience verin

The effect of picoschapy at compensation for

tions for After spiencetomy the hymph

glands of the greater curvature of the stouchet and

the omentum become hypertropherd and chitactily

red and ness once develop in the neighborhood of

the cutrquated spiene. Hyperplasma of the lymphatone

also mradually develope, fart in the weatmy of the

portal casels and then Irasde the liver lobes. This hyperplana is evidently—compens ting process in the lymphatic elements in the depths of the liver and explains the licerease in size of the liver which isflows removal of the spicen.

Figure 1 peru of the photo T estimat the see of the spheen coursely Chouffard draws a line from the middle of the smills to the trochaster repop, the arm being shell above the head. This lar error as the base from which the ovoid spheen is pulyited and percussed and it outline marked on the sinn. A line is then draw from the base line anally, to the forward limit of the spheen. This same anally, to the forward limit of the spheen This has and to it. Measurement of these is lines gives the procumnate size of the plene.

Striani A. Experimental Research on the Importance of the Spicen in the Production of Agglatinine (Receive spermentals still important at della mina nella produzione delle giputimine) Symwosisi, q. 127, 36

The author's investigations were made under the direction of Bants in the Institute of Pathological Anatomy in Florence The experiments were in de on normal and splenectomized rabbits. The typhoid bacillus was used as an a tigen. The blood of the normal rabbets showed small quant ties of agglutinus tw days after the miccion of the typhoxi banill These increased slowly for from twenty four t forty-eight hours and then suddenly increased ers rapidly so that the maximum was revched within ts or three day. They then decreased for bout t enty-five day until the ggl tinating power was too In spienectomized animals the curve i production of grintinus followed that of the normal earnals but the maximum peak was much lower and the minimum was reached in from fifteen to mneteen days instead of twenty five days WABream

Krumbhaar E. B. and Musser J. H., Jr. The Effect of Spienectomy on the Hamopoleti System of Macacua Rhesus. Arth Int. Med. 913, 1111, 636

Because of the diversity of results reported following spectromy in different animals. Krumbhaar and hisser thought it advanable to study some of the charges produced in the hemoposete or tem following the charges produced in the hemoposete or tem following the charges produced in the hemoposete or tem following the charges of the cha

1 Is the monkey, splenectomy produces an arrema which is less than that produced in man or the dop. The resistance of the crythrocytes is increased and the number of reticulated crythrocy tes as dimensible.

No signs of a blood cross are found

3 A shipt increase in the total leucocyte count is associated with an absolute and relative increase in the polymorphonuclears and a decrease in the small hymphocytes

4 The monkey is resistant to toluylenediamine from hais Sodium cleate is too toxic for profitable

we as a hemolytic agent.

5 At early periods after splenectomy, the bone marrow is shightly if t all, hyperplastic, but by the fifth month cellular hyperplant is marked and continues marked for many months.

6 The visceral lymph nodes are more prominent

aft splenectomy

The a thors draw the following conclusions.

A transient post-spiencetomy animals results chieffy from leasened blood formation due perhaps to the loss, with the spicen of a substance which pormally stimulates the book marrow.

The persast t increased resistance of the eryth rocytes is one of the most important results of splenectomy from the point of view of therapentics.

3 The changes in the bone marrow the lymph nodes and the stellat cells if the hiver of spience tomized monkeys indicat that these tissues take over the spieces is share in disposing of waste crythrocctes and their dismingration products.

4 The different response of v rous animals to plenectomy is partly explained by the difference in the relative spiece and body weights in the various species C J Gasaria, M D

Eppinger H The Splenomegaly of Hepatic Cirrhous (houstra opinome solve is esplenomegalia de las circosa hapaticos). Sessesse sold 19 3 xxx. In many cases of circhous with splenomegaly

splenectomy is an extraordinarily beneficial operation As i'll such sympt mas literary pruntus, hemorrhagic tendency and animals are favorably influenced and the improvement in the general condition may persust for a number of years. Therefore, spienectomy may cause repression of certain symptoms which up to the present time have been stitubuted the hepati conditions alone. Estimation of the spleen ought to have already influence also upon the changes in the liver but while the circline process may be arrested, there can be no question of cure. W. A. Burvaux

Csinoxxi, O Maiariai Spienomegaly and Ita Cora pEcations (La spienomegala malarica le sos complicamon) Pelidi Rome, 19 3 xxx, ser chr 57

Curroum reports his experience with spienomegaly during period of twelve yours. He behaves that the treatment of the enlarged

malarial spicen adherent in its normal difusion should be medical, whatever the volume of the organ. Because of the efficiety of such treatment and because of the physiological importance of the spicen, the greatest custom should be exercised in recommending spicence on the commendation of the

Surpeal treatment is usually rendered seconary however by the complications of the malirial enlarged spices. These include spontaneous rupture of the spicen repture due t trauma rapture caused by penetrating ound splease personente. and subphrence becesses parasitic eyets chronic malarial enlargement of the ectopic picen ectopia of the spleen 1th litent chronic malarial infection splenic infarcts ad hymatic cost in the ectome malarial anken, necross I the ectoric ankers with acute torsion of the pedicle and subacute ad chrome torsion of the ectoric spices

Cignozal has observed seventeen cases of spleno meraly ith rious complications of the types mentioned I frem were treated operati ely and were not operated spon because of the patient serious condition. The operati e mortality was 7 W A BEEN A per cent

MISCHILANEOUS

Lyentration of the Disphratm Brck, IL C Report of an 1 stance and Discussion of the Clinical Aspects of the Americal) Iss Cl. Med 9 3 36

Prior t the introduction of roentgroology act a single case of ev atration of the disphragm which came to utope and was diagnosed during hi reported in the literature

The condition is rare occurring in relation to distribrasmatic hernia in the ratio of about 1 t 37 Beck believes that although the symptoms may

not appea u til I t the condition is congenital He bases this opinion on the fact that it occurs in the newborn and is frequently associated th other congenital defects The bief drignostic features are illustrated by

R L SECRLETON M D care report

Mann, A. T. Diaphragmatic Hernia, V second Med gry vi all

With the recent development of \ ray diagnoses. disphragm tic bernie are found more frequently than formerly I ery case the attention of the diagnostician must be caught by some feature which indicates the need for rocatgenological exam n tion Many excellent eticles ha been weiten recently on the subject because of the large number of trumstic disphrigments; because which occurred during the war and because of the advance in diagnosis aub the Lera

The author reports two cases. The first was that of me 10 years of get The bernhal are contained the lower half of the stomach and almost the entire duodenum. The second case was complicated by acti tuberculous Treatment of the complication has been recommended, and operation will be considered later

The symptoms of disphragmatic herms vary according to the size of the herma, the amount of constriction t the ring and the organ or organs invol ed They include reflex indigestion, silver of the stomach and obstruction of the intestines Sometimes there may be no ymptoma Pressure on the heart may came tachy cardia and dyspaces In some cases there at a be tympuny or succession where normal lung treonance should be present The \ra findings are usually toocloss. The arch of the disphrism is clear and often higher then normal, and belominal viscera protrude at the thorax. The bermin is usually located on the left side as the right side is protected by the h er

There we two methods of pproach in the treat ment of this lesson—through the chest of through the abdomen. The former permit closer approach t the opening in the diaphragm and easier and more accurat saturing Formerly the artificial pneumothorax thus produced was great! fexred but during the Norld Nar this as sho t be of little in

port sace Abdominal complexations and addessors radical that the approach should be made by a high right rectus or median incuson. I certain cases in hick adbenous may be extense in both the thorax and the abdomen the combined thoracic and bdominal taction may be percently. Minut R Hoov M D

Willensky A. O. Drainage in Intra Abdominal Infection ine Surg 923, leven, 558

The other suggests that an ammediate morro scope examination of the exidate present in intra abdominal infections our serv as determining the necessity for drainage. A smear should be made of the exodate and stamed by Gram method the number of organisms present being estimated by an examination of several fields

Of cleven cases in which arying degree of in flammatory exadate was present, ten showed no organizate, and one only an occasional organism hone of these cases as drained, and the postopera tive course in all of them as uneventful

SEMERER L LOCK VID

GYNECOLOGY

UTERUS

Polak, J Ot The Life History of the Double Uteres. N Fork State J M 9 3 xxm1 7

The double ottens is the result of an arrested or field; absorption of the espective between the its scaleran shorts. The two parts may be equal or mercial, and there may be a complete espetium or mere vestigns of a septem between them. The following types a recognised the uterus bacomis accoss, the otterus baches, the uterus dedelphy, and the etterus uncomas with readmentary born. In the atterns the commas with readmentary born in the uterus dedelphys at the two components habite as resulted to suppose the completely separate but each has only one tube ority and round ligament. The virgina may be either double or single. In the uterus becomes the backes are united it some extent at their lower each. In the uterus uncomms there as an undee cloped loss attached to the main body. It or just below the red of the internal on

There may be no symptoms to durect the ttenthous of either the subject or the play mean to the anomaly Mustireation is seldom altered, though it may occur early it weeks, every month, or only once in early it months Stenhity to comparatively un common Museriage and presenture labor are ery common Prepancy may occur in one born or in mile borns of the uterus, and superfectation is possible for the superfectation in possible to the superfectation in possible to the superfectation of the superfectation is possible to the superfectation of the superfectation in possible to the superfectation of the superfectation in possible to the superfectation and the superfectation in possible to the superfectation of the superfectation of the superfectation of the superfectation is possible to the superfectation of the superfectation of the superfectation is possible to the superfectation of the superfectation of the superfectation is possible to the superfectation of t

Labor a frequently normal, but many abdominal complantes are reported Obstruction or rups re may occur. The presentations returned to the complant of the process of the complant of the process of the complant of the reducentry form of boronat uterus conducts comparable to an ectopa pregnancy may be brought about The syndrome to very constant and suggestive via the usual signs of pregnancy with the current abouting pain through the affected and pension understanding pain through the affected and pension understanding pain through the affected and pension understanding the affected and pension understanding pain through the affected and pension understanding pain through the affected and pension understanding the affected and pension understanding paint through the affected and pension understanding paint through the affected and pension understanding passion through the affected and pension understanding passion through the affected and pension understanding passion through the affected and pension through the affected and pension understanding passion through the affected and pension through

H W Frva, M D Beldt, H. J The Kielland Operation for Prolapsus

Uterl Serg Gyec & Olet 9 3 MEN 743
Karland secrets that in more than 50 cases subceted to he operation he has not seen one recurrence.
The technique described has been used minor 9
Ascilland modification refers principally t the
trainment of the

Arelland modification refers principally t the treatment of the vaginal portion. This is not am potated but in utilized to prevent recurrence. The arelations of recurrence depends, not upon lifting suspension, or frustion of the vaginal portion, which may be loosened by subsequent intraabdominal personne but upon statle factors. The points of the uterus a straight and parallel with the us of the ragina. Intra-abdominal pressure acts on the posterior surface of the uterus and transversely to its long arts. Therefor it pressess the uterus gainst the posterior vaginal wall rather than out of the ginal outlet.

Kelland claims that as no levator suture is used unless rectocele is present, the results prove that levator suturing is not necessary

Twel e illustrations show various points in the technique of this operation C H Davis

Bell, W. B. Intrinsic Dymenoerhoen J Ohn & Greec Brit Emp. 9 3 xxx 9

B the term intrinsic dynnenorthers the thor designates the pain which is due to some inherent abnormality in the structure. If the organism of measuration or the physiological processes connected with that function. The term extrinsic dynnenorthes is used to denote the menstrual pain due to the presence of acquired pathologic leasons in or pear the pelve resears.

The pain in intrinsic dysmenorrhors may be premenstrual or both premenstrual and intramenstrual very rarely is it intermenstrual

Intrinsic dysmenorrhous may be due to one of the following local causal factors

A Morphological anomalies

Underdevelopment f the uterus

Underdeveloped terms of normal shape.

Underdeveloped uterus with or without
underdeveloped overses, with a conical
cervix and punhole os externum or a
hypertrophied cervix

U derdeveloped uterus with acute flexion (cochleat uterus) Gross malformations

Divided uterus, due to imperfect fusion of the mullerian ducts

Atresia of the cervix or vagina with a

ample or divided cavity

Accessory occluded uterane cavities

B Physiological anomalies
Intra uterine clotting of menstrual blood

 th the expulsion of blood casts of the tenne cavit;
 Excessive exfoliation of the endometrium

(membranous dysmenorrhous)

HARRY W. Frox, M.D.

Meaker S. R. The Practical Management of Dyamenosthoms, Section 11 & S. J. 913, christ m,

From the chancel point if view there are un doubtedly different types of dysmenorrhom, and

some sort of grouping must be itempted before the problem can be handled. As pathologic classifies, toon is madequate in a condition which often presents no assitomical pathology a grouping by 39 mp toms offers the most satisfactory working basis.

From the latter viewspoint cases of dysmesior there fall int to groups. I the first which the author calls Group A the charcal picture is as follow:

The pain begas from twenty four, I forty cight bours bifort be for It in frogeredly risher set to flow the fore becomes and the flow becomes all established but namy persent throughout the person In character it is red didrugging, and constant, and is left throughout the four at adminish. It is very often accompanied by backs he said sometimes by pain in the thigh knames, confliding, and headcade are frequent the amount of the flow is sometimes normal, but often increased. Lecontries and other intermentation

pelvic as motoms are common This will be recognized as the picture of chronic name a congestion of the private upon theh each menstru I reriod superimposes an acute phase E en the hendaches and gustric symptoms commonly railed reflex, may be due to consection of the menuages and gastric mucosa result by from an bearmal endorring ympathetic balance. This type of dysmenorrhees is nearly alway accompanied by definit pel is pathology. The list of conditions commonly responsible include pulse inflammation in II to theses, chromic narrive controllor from faulty sexual hymete fixed retroversion famou of the aterus fibroid tumors, and occasion illi severe chronic constitution The onact of this type of dysmenorthers as murilly subscapest to onberty and coincides with the development of the under lying bnormal ty Cases Group A form about mer cent of remail dysmanorrhaus married omen they are relate h much more cook mon in general case of thus t pe my be er pected t become one rather th marriage

The clinical pecture of Group B as en dul rent The pun begins pproxim tel th the flow-et any rate, not more than an hour or t before or after Ordinards it hats only a few hours I character t is usually intermittent speamodic, and cramp-like, though occusionally t is described as burning or boring pain it is nearly also ye felt in the lower mid abdomen over the merus. Assuca and vomiting are fairly common, but headache relatively uncommon Marked cakness and general persons mitabelity are often encountered amount of the flow is usually normal, but sometimes dimensional I t mensional pelvic symptoms are as rule absent

The type of condition is best cleanfied as disordered refer. The psauless, easy rhythme uterine contractions of normal meastrastion are replaced by erregula spramode, and punful contractions producing issuelly typical cramp or cohe and occasionally steady tenemos lik pain The came of disturbed reflex may be located on the ferent sensor, limb of the refer are, in the central person a sizes, or on the elieurent motor limb of the are. Among dynacroorders of Group B are cares in which the disturbance as in each of these localities, and on this bases Group B a divided

Int Subgroups, B B2 and B3
In Subgroups B: the riflex is upset by excessive and a Subgroup B: the riflex is upset by excessive sensor; strought counts from the endometrium and evolute counts from the externed mascle. Any endometrial conditions that professes localized rates because the expension of the country of the expension of the subgroup is that of Group B in green place, somewhateness of the expension of

In Subgroup B the reflex is overactive because of conditions in the central nervous system. The conditions is the central nervous system The condition is that retrieved by general nervous hypertension of such the puttent may or may not be convectors, and increved nervous initiability a low threshold of simulation and a timunation in

satance at the system. About so per cent of rignoric case belong to the group. Polve publishings a absent. The development of the satue is favored by the complex conditions under which the modern grid line. The strenous life scholests, industrial, or securit, in the life best of the sar added irregular hours unbillineed diet, not lack of evertose it as surprinsing this new one sustability in grid in the surprinsing this new one sustability in grid in the surprinsing this core one sustability in grid in the griderit is migrous of Group B. There is no saig gratuo of probe it thologo.

The remusing so per cent of virginal cases belong to Subgroup By in lack the cause of the distribute refer action has a the musculature of the sterior The soost frequent condition persent in these cases is pelve in populars.

This subgroup is t be distinguished by certain symptoms in subtion t the mortl ones of Group B. Fain of the stared borning or borning type located directl over the attents is fairly common. This flow is pit be dirm when quantity and irregular and interpreted. It may contain this

The prefinancy step in all cases of Group A in to remove if they are present two felects—I ulty serial hypere in the married and chronic constitution. Both conditions are fruitful sources of petwecongestion and their adjustment if sometimes result in permanent and complet curs of dyminoriphers of this type.

A satisfactory regime for ordinary cases nactodis the following as steam which are given in the order of their import one () the emissing (the patient's interest and no operation () regularity of labels, (g) lurge find intake (4) det (5) abbomusia exercise and message, (6) small doses of liquid petrolation it this beginning of restrictions.

In Solumnin Br. as in Comm B senerally very metal pelles tree cemedy is found in the hencyl esters. which relieve the crampable or cohere type (Da) anene from the speemody contraction of emooth

The radical care of this type of dyamenorthum depends necessarily non local treatment of the radonatrono The first step is an examination with dilutation of the cereir and the much emints

tion of the pterme cavity

In Subgroup Ba bensyl bensoute serves very well as nathative seemt for the rehef of the cramp like mun. If the netient is definitely of the nervine type if w ell to order to gr of sodium bromide three times a day for week before the period. When names and comiting are consparates ymptoms, good results are frequently given by corpus luteum, administered in 5 gr doses three times day during the premenative | week

The keypote of treatment leading t radical cure in Substrain B is attention to the seneral

bealth and hymene

The element function is not the overlooked. Many girls have been taught by the kier generation repard themselves as semi invalids during the mentional period, and in the course of time an ab normal thitude develops which is mental more than

obvec-1

In Subgroup By the palleatne act f benzal bemsoats may be tried. To give permanent rehef in the type of case presenting hyporlasis of the sterns is a slow disconstinues a difficult matter The usual treatment includes two tems-pelvic exercises and endorring therapy. The latter cannot be regarded as established on a scientific bears, but must be carried out emparically

C H DAVES, M D

Forschia, 5 The Treatment of Severe and Person ent Uterine Hemorrhade by Radrum, with Report upon Forty Five Cases. Proc Rey Soc Hal Load 923 xvi, Sect Obst & Gymec 69

The methods advocated for the treatment of serere uterms hemorrhage are () hysterect my () X ray treatment and (s) radium treatment The analysis of a report f toety five cases treated with radium tends to show that this is the method

Of the forty five patients, twenty aix had under gone some form i operation or combination if operations including dilatation and curettage the removal of polyps, amputation f the cervix and cophorectomy or salpingo-cophorectomy Some of them had been curetted more than once. The rest had had medical treatment for variable periods or were so arremic that any further effort t pulliation as contra indicated

In all cases dilutation if the cerva and an e ploratory curettage ere do and when the cervix and regard were septic preliminary cleans g treatment was given. In all cases the radium was placed in the uterine cavity and only the gamma

ray was used. The yastina was nacked with status mostened with limited paraffin to support the radium and t keep the bladder and rectum away from the source of energy To maintain the bladde in flaced condition self-retaining catheter was introduced. In some cases, I was necessary I statch the subse to enpoort the varinel plus

Three of the patients were between so and 26 years of age ten between 20 and 18 twenty two between an and so and ten between sy and se

In the cases, I nation to between the ages of so and 5 c mam of radium were used to five hours In the others, oo mem were employed for twenty four hours. From the believes that no mem as an imprecessably large quantity as in some later cases 75 mgm had the deared effect

After the treatment there was no further loss (blood in ten cases, ne penod in seventeen, two in eleven and three in four In five cases second treatment was eccessary In three of these there was little doubt that the first exposure would suffice but the nationts were so thoroughly frightened by two prolonged show I llowing the first exposure that I was considered advisable to comply with their demands. In only two I the five cases was angethesis necessity

The only contra-indication is previous pelvic inflammatio This is very real danger as the polyie may become filled with an inflammatory tumor many into the abdomen, the nucleus f which is an abscess deeply seated in the pelvis and nearly impossible to deal a th

The author' conclusions are as follows

Radium treatment is the method of choice in all uncomplicated cases | severe and persistent harmon rhage due t chronic metritis Inflammatory disease of the tubes and ovaries constitutes the sole contramethos fac

rule the radium menorause is not accompamed by any symptoms attributable t action upon the overness

Radium treatment causes the least disturbance of the patient's economic life CHDWWMD

Deals, F. Histologi Pictures Representing the Cure of Uterine Basoccilular Epithalioms, Arch Redies & Electrolograpy o 3 xxvan

In proportion t the intensity f the action of the aradiation upon the cancer cells of the uterine basal-cell epithelium the following phenomena which are t found in cases of spontaneous degeneration are observed Massive and raped kary orrheris f the cancer

cells without intervention the part of the blood cells or profound degeneration of the normal tesuca Progressive necrous camed by pychous or

chromatous with counophilis vacuolization of the protoplasm and phagocytosis by polynuclear blood cells. This well marked phenomenon is here especially characteratic f the action f firradiation 3 The transformation of the cancer cells into

grant cells and grant nuclei, an alteration which

may lead to necrosis with invesion by polymeiour leucocytes or to gradual atrophy with fatty degeneration of the protoplasm and disconstructs of those elements without the participation of lencocytes in the process.

Irradiation, especially radium irradiation first affects the nucleus, camping actual conture comparable t fits offect on the lymphocytes, or the destruction of the nucleus which is sometimes combined with cosmoohibs or the inreal arocytic shaped degeneration which seems to result from uclear

fasion due to loss of karyokinetic power.

The author berryations lead him to the conchains that the polynoclear lencocytes occur only association with spontaneous degeneration or radiotherapeutic transformation of the head-call epetheliones as a consequence of incidental infections or the necrosis of cancer cells, and that they do not tak an active part in the elective regression proper. It must be admitted also that the conpertive tasks has no active participation in the regression proper and that effects, reaction against the cancer proliferation or its agent must be escribed t the militation of lymphocytes

The appearance of grant cells without the characteristics of malignant tiesus, sometimes with distinct followlar shape, and the appearance of true histologic follocies following radium irradiation of cancer alveol; suggest that substance is liberated to which the body reacts by lymphocytic infiltration and the formation of mant cells. In this connection the histologic findings noted upon the healing of the follacle radiced by the experimental mection of Lilled Koch bacilli should be borne in mind, namely the formation of glant cells, fusion of the recies, the formation of merscurvocyte elements, and progressive liberation and atrophy of those megacarrocytes Those phenomena greatly resemble those observed in cancer regretmon

The article is supplemented by twenty-two C H DAYN, M D photomicrogr phe

Martitlett, K. II : Carcinous of the Curti Utri A Pathological and Citated Study with Par-ticular Reference to the Relative Malignancy of the Neeplastic Process as Indicated by the Predominant Type of Camere Bull Johns Hopk as Hosp Bult 923 XXXI 24 84

The cells seen in epidermoid cancer of the cervix fall morphologically into three large groups tran

attemal, fat spindle-cell, and spinal cell groups I the cases reviewed the varietal mucces was involved in over 50 per cent, irrespective of the extent of the cervical involvement

Secondary involvement of the corpus nien is cervical cancer occurred m 4 3 per cent of the cases in high the entire length of the cervix was involved One third of all the patients seen during the first six months of symptomatic theese with the ex-

ception of those suffering from the spinal-cell type of cancer, bad extension of the proplemate process to

the broad brament

Less than ro per cent of the patients with broadbgament involvement lived more than one year alter operation

The first symptom of the discuse in almost \$5 er cent of the cuses studied was unusual vaginal bleeding, and in 97 per cent some form of mannel vagnual discharge (either bleeding or lencorrhoss) was the primary symptom

Of all the cancers in the series 5 1 per cent occurred between the ages of 16 and 50 years rache ·ITC.

Of the patients between 31 and 35 years of age, inclusive. 86 per cent are hyling and ell today This is the highest cure incidence for any five-

your age period in this study Of these patients 14 per cent gave a bletory denying pregnancy at any time and any form of

VARIDAL INSTITUTORISTATION In 58 8 per cout of the patients operated upon ho aboved broad beament induration on niveral er

amination, this finding signified carcinomatous ex tendon The incidence of cures was almost t ace as high in the cases treated by abdominal nanhysterer

tomy as in those in which a vaginal panhysterec tomy was performed

The total operability of the cases in this study was 40 5 per cent

The total operative mortality was 4 per cent The operative mortality in the Johns Hopkins Chaic at the present time is between 6 and 7 per

Preliminary curettage performed several days prior t the radical operation for cancer was the proc. dure employed for 46 8 per cent of the patients who are now bring and in good health. From this it may be concluded that a dismostic curettage not in mediately followed by radical poeration for exturnation of the makement process does not by any means render the prognous hopel

The transitional and fat encode cell types of cancer frequently become inoperable early in the disease, and the stangi-cell type and adenocarcino

mata before the fifth month Eaghteen and seven-tenths per cent of the pattents operated upon and traced are hving and well toda

So-called five-year cures ere obtained in ed 6 per cent of the cases

In this study there was no spedermond cancer of the curves conforming to based cell cancer of the skin in regard to its apparent lack of mahanancy

The intemorphology of the predominant types of cells in endersood cancer of the cervix is important us that it indicates the relative malignancy of given tumor. In this study the spanish cell type of cancer proved to be the least mahamant. The tranattored cell type was next in order of necessing malignancy and the fat spindle-cell type the most mahaneat of all

I malignancy the adenocarcinoma falls in be tween the sound-cell and transitional-cell groups of endermod cancer

Enthehal pearls are of significance only when they are anoctated with cancers of the spanal cell type. They then appear to indicate a lessened manguancy

They then appear to indicate a leasened mahignancy of the cervical new growth

This very careful analysis of 387 cases of car
cmoma in the wards of the Johns Hopkins Hopkins

prior to 1900 is summarized in fourteen tables. The

article contains also ten photomicrographs
C. H. Davia, M.D.

Poink J O., and Phelan, G. W: What Constitutes the Surgical Carvis? Am J Ohn & Gymr. 9 3

The pathologic significance of a tear is not so much its criteria is the changes resulting from infection caused by the invasion of bacteria from the spins, the associated submrodution, and the passic hypermia due to the fact that the heavy sterm is all ays out of the plane of the circulatory creallisium.

More than half f all cerescal injuries present some of these pathologic changes, except perhaps a pupillary eroson. The so called croson is not an indication for surgery unless that on the lips of an certical, by perhastic, industried cervix

The authors classify cases into those with () coson and gland infection without loss f tessus () tesns with considerable loss of tessus (3) errors hypertrophy and hyperplana with induration

(a) systic degeneration (5) deep bilateral team with eroson and (6) stellat or multiple lacerations. In case of hypertrophy (intravaginal infection) systic changes with surrounding hyperplasas, and operation for prolaipse in soman who has passed.

the menopause, trachelectomy is necessary.

Whenever possible, trachelectomy should be irroaded during the child bearing period as it pre-disposes to abortion in subsequent pregnancies. Trachelopiasary has not the same effect on pregnancy and is not so often cause of premature labor and dystocia during delivery.

The ordinary erosion will usually yield to pphcations of the actual cautery to destroy the excessive

hupbord growth

Cases of chronic infection of the glandular structures penetrating to a considerable depth the authors treat by the intracervical application of 5 mgm of radium in crossiles for short exposures

Proper preliminary treatment carried out over proud of weeks before operation will often so inprove the local condition, and the cervar of its citican, destroy cysts, and cure the infection as to reduce tracheloritaphy possible, whereas if no premittanty treatment is given amputation of the cervar may be necessary. It is because of the lack of such preliminary treatment that many cervacial operations full: cure the glandular infections and the associated parametries.

Tracheloplasty has cured tenhty due t excessive cervical hypertrophy or abnormal cervical discharge. In a certain percentage of cases tracheloplasty and amputation of the cervix have been followed.

by pregnancy In some instances the pregnancy resulted in abortson or premature delivery but in others was terminated by labor at term

In 50 per cent of the cases of surposal conditions of the cereix operation will not cure the leucorrhom unless long course f preliminary local treatment

as given chart vely small umber of cases of ster that are cured by surpical treatment of the cervit. Therefore operation should be done only after a Hahner and a Rubin test have shown that the cause lies in the brochemical changes in the cervical that the Cause Lorentz. M D

ADNEXAL AND PERIUTERINE CONDITIONS

Marcus, M. The Radiation of Pain in Lesions of the Pallopian Tube. Brd. M. J. 9 3 i, 85

While the physical signs of disease of the fallopian tube have been muritely described, it is of importance t differentiate more clearly between the subjective symptoms of the condition and those local performing in the same region. Disease of the t be is evidenced by pain referred into action with the area supplied by the spill effect to the action with the segments are the eleventh and twelfth dorsal and the first lumbar but sometimes the area is wider. Pain over the skin area of the loin, in the land closes, and passing down the anterior surface of the thing to the kinness of the loin, in the land closes, and passing down the anterior surface of the thing to the kinness is localization sign of considrable value.

The other otes are cases in which there was pain in the hinc fossis and on the anterior surface of the thigh. This localization of skin hypersethesis suggests that the tube is represented in the spinal cord by the eleventh and twelfth dorsal and the first three lumbar segments. Y.E. Dunsay M.D.

Nattram, J. H. Autoplastic Ovarian Transplanta tion. Bril. H. J. 9 5, 1, 05

The following case report is of interest because the patient has been under observation for thirteen years after the operation for transplantation of the ovaries and a macroscopic and microscopic examination of the transplanted glands was made nine and one half years later

1 o carantens section was performed on a 6 lb baby This operation was necessitated by tuberculess of the hip. To prevent further conception, the oversee were transplanted into the antenor abdominal will Subsequently because of the strenous use of

cruthen, wentral been a crewledge a territoria see or part of the sear I a pop, a relegation the upper part of the sear I a pop, a part of the sear I a pop a part of the search of the search

could be seen and felt. When these were pricked with a kille, between followin escaped. Biscroscopic examination abowed normal ovarian tissue with a nich blood surpoly.

The patient has menstrusted regularly and her sexual bie has been normal. During menstrustion the ovaries are slightly tender.

I EDRARD RESERVE M D

MISCELLAREOUS

Berger K. The End-Ramins of the X-Ray Treat most of Cancer t the Freiburg University Gynacological Clinic, 1913-1916 (Descratiogs der Strabkentberges des Kreibus an der Freiburger Untwentsetzinsenkinnt, on ro 1 9 5 5 Steakeriereties, out 27 4 5

This article is review of the results obtained in the cases of caraneous radiated by Kroeng in the period from December 9 o to Docember 9 6, and is supplementary report t the review by Moeller Carobis on the results obtained by Kroenig in cases of caraneous treated surgically

of carcinoma treated surgically

The maximum incidence of carcinoma of the
breast falls between the fortieth and forty-fifth

years of ge, and that of carcinoma of the cirry of the aterns between the filteth and fifty-fifth years. The average age at which carcinomas of the breast develops is 53, 4) ears, while that of carcinoma of the fundus of the ut rus is 7 years and that of carcinoma of the cirrus 5 6 years.

Of fifty-ax cardsomate of the breast treated by mdation, eight remained cured at the end of five years. The average length of his as therty five and three tenths months after the beginning of the dacess and restly-eight months after the beginning of

treatment

Of eighteen cases of carensoma of the landos of the
uterus, air remained cured t the end of five years.

The average length of lif after the beginning of the
discusse as thirty-right and air tentles months, and
after the beginning of treatment thirty and mose

teaths months

Of seventy-sax cases of caranoms of the cervix, six
remained circuit sites five years. The warage length
of lif after the beginning of the disease. as t enty.

one and four tenths mouths, and after the beginning of treatment, sexteen months These cases represented all stages of the disease Senori. (2)

OBSTETRICS

PERGHANCY AND ITS COMPLICATIONS

Day H. F. Diet During Programmy Best 5 J 9 3, choravan, 904

In order to regulate the weight of the mother and baby and to control such symptoms as nausca, company, construction, and hypersudity the term of pregnancy is divided into trimesters and sint

able diet is offered for each period In the first period the mother's general nutrition mort important on account of the frequent morn ing ackness. Calci in deficiency during this period

may be the cause of mucarriage

The second period is usually one of normal netabolum, but here again the calcium supply must be watched because of the deficiency produced by the calculation of the child teeth

The third period is the period of rapid growth of

the fetus and inactivity of the mother due t the increased are and weight of the uteros

First considered in the diet are the vitamines (1) fat soluble A () water soluble B (3) water soluble C and (a) D or 1, which is essential to reproduction. Next, are the minerals, iron, calcium, and phosphorus, and then the carbohydrates, pro terms, and fats

I caty five cases are cated in which the a crage weight gain during pregnancy was 4 lbs instead

of the usual so lbs

The article is concluded ith very comprehen my list of foods showing the amount of protein and minerals in each portion and a number of wellbalanced menus suitable for each period of preg Macy **Иппик В Саммен. И D**

Williams, P. P. Presnancy and Labor in Very Young and Elderly Primipares. Atlante II J 9 J. IIVI 450

From this study it appears that dolescents are able to stand the strain of pregnancy labor diactation as well as older women. They seem to bear well the brunt of the enormous physical and mental changes of pregnancy and, in many in stances, even while earning their is chbood and con cesting their condition. The pel es of these girls reflect t certain degree their immaturity and perhaps, in some instances, their lack of proper autropon and care in the f rmative stage labors fall well w thin the normal hmits of time The power of espulsion is apparently as well developed as in older omen

The verage weight of the infants is somewhat below normal, although arrations above that level are sometimes remarkably high Pregnancy is of normal length and but little assistance is necessary at term. The poerperium is noticeably uneventful

The youthful mamma functionate normally and in the majority of cases the breast fed infants do well while under observation

Similarly the cases of four elderly primipars: which were observed by the a thor refuted the beher that reproduction in the extremely old primipara is fra ght with difficulty and danger

L H DAVEL MD

Turck, F B The Pathologic Reaction of Theme Extract (Cytost) Liberated in Pregnancy Am JOSH & Grace 0.3.

It has long been known to biologists that a toxemus from disintegrating tistue occurs during pregnancy and to less extent during the menstrus periode, adolescence, and the chinacteric. In preg nance both the mother and fetus are affected t an a specific t the species

The specific autitorin for this timere torin has also been known for some time and has been used to produ mmunity

The findings of the thor's experiments taken in conjunction with those of hundreds of others of similar character has led Turck to the conclusion that he has demonstrated that los concentration of homologous cy tost stimulates call mitous and metabohen Further that it directly affects the germ plasma cell and thus determines concentral condutions and beredity

High concentration of homologous cytost produces the opposite or retrograde effect on the cell, causing degeneration metabolism of the germ plasma cell

The results of numerous experiments are recorded E L CORNELL M D

Downy E., and Rochat R. The Dustmorts of Tubal Pregnancy Commal Pregnancy (Sur la diagnostic de la grossesse tabaire la grossesse angulaire) Grace daled 9 3 vm,

T bal pregnancy is rarely diagnosed until the ppearance of complications

Many cases diagnosed as tubal pregnancies are in reality comusal pregnancies. If the ovum becomes tisched t the utenne mucosa at one of the horns t is ery pt to atrophy der lop irregularly or become cast off and expelled. In a cornual pregnancy the terms is not enlarged evenly. The all fected horn is soft and distended. Hegar' mgn is beent, but at the base of the graved horn there is

soft band which gives the born an independent motion relative to the uterus. Bar calls this the superior men of Hegar

Bimanual examination gives the impression of a double s ciling One swelling is the uterus, which is somewhat larger than an empty uterus, and the other is the graved horn. The graved horn is softer than the uterus except during contraction when it may be harder than the uterus (under. After the eleventh week the uterus gradually assumes the form noted in a normal premancy

Cornual pregnancy is usually associated with unilateral pain in the lower belowen, and frequently with slight amount of fregular bleeding which

often leads to error in diagnoss

The authors report three cases to abow how easy is at co-confece consest with tails prepanery. I order to diagnose lateral fierzon of the grand turns the patient in placed in the Transferaburg position. In conteal prepanery the enlargement is often antero lateral, while in table prepanery it is usually positioned and often for the pouch of Douglas. In coronal prepaners and often for the pouch of Douglas In coronal prepaners with bound harmonia will be

felt beyond the terms

I triviallal pregnancy is a pathologic rarriy which cannot be differentiated chincally from covering freg narcy before raytime. The issual course of the for ther is to and rupture while that of the latter is toward accuracy. When the dustrous is doubtful as to whether the

pregnancy is in the tube, the uterme wall, or the korn, the best procedure is to keep the patient under observation. If this is impossible, it is safer

t make an exploratory laparotomy ROMON JEFFOR, M.D.

Hayd, H. E., and Potter I. W. The Symptoms and Signs of Extra Uterhae Pregnancy At or Near Term, with Report of Two Cases and the Treatment of Late Ecopic Generation, Together with a Review of the Literature and Recorded Cases. Am J. Old & Gost. D. 50

In the first case reported both the mother and infant died. No operation was performed. The ectopic pregnancy was disclosed at autopsy. The

accord patient was operated upon and both the mother and baby are living and well

In these two cases there were none of the signs of violent rupture of the tabe at the auth, eighth, or tenth need. The nomen had not lost blood in the early ceks t mak them doubt that they were pregnant and their condition was much the same as that in the early mouths of intra uterine sesta tion. They continued to be about until the adhe sions which had formed between the box is and the fetal exvelope caused the sudden and slarming my my tooms of partial or complete obstruction In pregnant omen who ha not been subjected t previous intrapentoneal operation, obstruction of the bowel at ery rare because the pregnent aterine body is smooth and freely movable and when inted up adjusts stadil t the distending influences of bladder and bowels in its progressive development

In neither of the cases reported were the attend ants impressed by the lood heart sounds and their more superficial character by the fact that the baby lay to one aide, by the fact that the extremities were more palpable than usual or by other norms and remptoms given in the classical description of this condition. On vaginal examination they felt a cervit harder in consistency and online than was to be expected in uterns at term and the resultance t the examining dinger of a hard body suggesting

small about tensor los down in the pelvic outlet. Therefore diagnosis of fibroid temor complicating pregnancy was made and operation was advised.

Extra-sterms fetation usually calls for surpoul relief as soon as possible, whether the embry as visible or sort. If the preprincely his pussed beyond the set-enth month, however the surpoin cry war until the halfy a stronger provided the patent is myord condition and can be kept under close observation.

If the mass can be tred of at both code, as tempt should be made 1 remove the asc and placenta. This may be possible if the pregrammy in the prediction of the prediction of the prediction of the possible of the prediction of the prediction in the prediction left as for cent indeform gaues and the placents left as the or the sac seved to the belommal all, in which case wery great castion must be extremed not to deturb the placents by pulling or togpag on it out?

The stucie is concluded with record of strip t uthen its cases in which an extra uterine child as born abre and lived thirty day or longer and the mother also survived. Ecowars L. Convini, M.D.

LABOR AND ITS COMPLICATIONS

Arnold, J. O. De Present Day Efforts Toward the Elimination of the Second Stage of Labor Constitut Forward Step in Practical Obsterical Theory Ger. 921 pt 2222 306

The aethor routinels gives morphise ad by occurs in repeated does during the entire flight stage, which prolongs the time of cervical dilatation but decrease training to the cervity. If then decides upon the method of delivery—shether it shall be agned or beformed. Vaginal delivery may be effected by focceps of Potter enson.

The drantages of the surgical deli ery are the temoval of the dread of future pregnances and the conservation of physical strength by presenting ethanistics, trauma and about

RILLIUS B CAMBILL VI D

Drouis, L. A Discussion of the Factors Influencing Breach, Cephalic, and Transverse Presentation Infrast J. Sarg. 9 J. 20271 805

Normal presentation is cryshic because the owns a smally implanted in the appear segment of the attent and the cord in attaibed it the lower portion of the fetal abdoneo, tending it suspend the fetal head downwith.

The basis of abnormal presentations is the law of floation. According to this is solid bod immersed in a layed fulfalls one of three conditions according to better it eight in less than equal to or greater than that of the displaced flust. This law operates when the fettes and cord art too long.

for expension and the fetus floats and these to the topper famils if the uterus with air higher attempts to breich at the top and its heavier extremity the head at the bottom. Then, according to the law of hydrostatics, the pressure at the lower uterine expensive theories greater than that in the funders, and by uterine contractions and fotal movements the leafly head of the contractions and fotal movements the leafly head is forced in and the hyersch down.

the lefal head is forced up and the breech down
Falare of absorption of the ammionic fluid which
s probably the cause of hydramnios, preclaposes t
absormal presentations, as do also large f tal

bead and narrow pelvis

WILLIAM B CAMPELL, M D

Cameron, S. J. The Technique of Greatrean Section, Proc Rey Sec Hol Lond 9 3, xvi, Sect Obst & Gypne 5

Whitehouse, B., and Featherstone, H. A Note on Two Cases of Casesrem Section under Spinal Ansathasia with Tropaconaine Pres. Rey. Sec. Med. Load. 9.3 xvi, Sect. Oht. & Gymec. 55

Cameron describes the technique used in 107 cases of catagreen section in which there was only one death All I the women were rachetic. The incusion was made through the rectus sheath on the nght aide and gause was packed between the uterus and the parietal peritoneum. When the uterm had been opened the child was delivered as a breech The uterus was then drawn through the wound and laid on the abdominal wall, where t was turned unide out so that the membranes were expelled It was then closed with three sutures of silk which ere passed through all but the unner layer and super imposed with interrupted catgut sutures. Cameron sever operates when the membranes have been ruptured for more than twelve hours or repeated vannal examinations have been made

Whitehouse and Festherstone report two cases of cessarens section performed under spanal sansthesia with f worshle results. The anesthetic was tropacconine in § per cent solution. The infants etc in good condition and the tone of the uterus was preserved. One of it women was diabetic and the other had placent previa. Both of these pattents made an unceventful recovery.

II II FINE MD

PURPPERIUM AND ITS COMPLICATIONS

W tson, B P The Treatment of Puerperal In fections El aborth M J 9 3, xxx, Sect Eduborgh Obst. Soc. 65

Recent experience in the treatment of spitus outdo has alone has the nost important four outdo has alone has the consumption of the free damang, and the fewer the numerical and the least the numericance to better. I the infected uterns the cet self-canal always remains partition and dramage as assured. It may be helped by placing the patient in the Fowler position and by administering group triusting, and quinner. The spitiation of an acc begin to the abdonces will refer any pour that may be present and reduce

fever. A free leguld det should be given, the bowels should be kept open but not severely purped, and if possible the patient should be kept in the open air Blood cultures should be made at intervals. If there is accumulation of fortid discharges in the vagina a

sentle vaganal douche may be given The great majority of puerperal infections will weld to this type of treatment. If extension takes place t will become evident in the course of a day A cellulitis should be evident to himsonal adpation in three or four days a pus tube a little ater As a rule a celluhtes will resolve in a few weeks. In a few cases, however suppuration will occur and the pus must be evacuated through the vaging or extrapentoneally through the abdominal sall in cases of pustube removal should be delayed of nomphic until the temperature has reached and remained normal for some time. If the temperature remains high and the patient a general condition is deteriorating, the pus may be evacuated through an ncision in the posterior fornix, the tube being removed at a later date if necessary. If there is avidence of pentonits, an increso may be made in the posterior forms and dramage established

Thrombophichtin is evidenced by wide excursions it temperature repeated chills, and the palpation of thindening on one or both sides of the uterus Sach cases may be dealt with by lightion of the overain or common thate veins. This somewhat hereous treatment has been curried out by many operation with surprainagly good results. If there is well, hivstroctomy may be performed the uterus wall, hivstroctomy may be performed.

What has been said regarding the treatment of purpersyl infections occurring after a full time delivery pipes equally to those analog after complete or incomplete abortion. When abortion is followed by fever curettage of the uterus and uter utern manupation are contra indicated unless there is severe harmorthage. If the abortion is morphete and mass is felt projecting through and blocking the cervical canal, the mass may be very sently removed.

If after the temperature has been bornal for several days the pernstence I blenching and the patulous conducts of the currur inducts that the abortion is till incomplete gentle curretting may be carried out. Even after this length of time the temperature will availy nue after the operation, all not infrequently there will be a rigor inducting and not infrequently there will be a rigor induction;

blood invasion I most cases, however this will be only temporary C H DAYM, M D

NEWBORN

Cruickshank, J. A. The Harmorrhages of the New born Lencel 923 CD 316

From the findings t a maternity hospital the impression is placed that the presence of supplying congestion is the essential element in the production of hemorrhage, that the lacrosse of this congestion by the pressure of the maternal passages is the next

most important element, nd that injuries due to abnormabilities of presentation or operative interference are third in etiological importance. The invidence of hymorphism in the material scale

The incidence of hemorrhage in soo mature and premature infants studied by Kennedy and the author is shown in Table I

TABLE ! -- THE DACTOF ACE OF THE ! HAVE GRADES OF FURNISHMEN DATE OF THE ! HAVE GRADES OF THE !

I.	Per cont	Per ce
Hamorhage—all grades	Bo .	6/ 6
Capallary contags or peterine only	30	76 5
Gross kannorrhage	50	40
Gross intracranial luminorrhage	j	5
Geom intracrassed harmorrhage and vis-		
coral harmorrhage		
Vacceral hemorrhage without intracra-		
neal hermorrhage		3
Intracranal harmorthage alone		
No hemorrhage	30	23 5
Testoral tears	30	

In comparing the moderar of hemorrhage in the group of mature cases with that in the group of premature cases the most sinking difference is that whice only so per cent of the mature inflants were fire from hemorrhage, practically 55 per cent of the operature inflant secuped. The percentage underso of most of the types of hemorrhage was lower in the premature group than in the mature group by intity constitut amount bert the moderno of montespel hemorrhage was the same in both

From these tao sense of cases it is evolent that two main types of leason can be dutingrounded. The most common—harmorrhage—occurs us shout poper creat of all the cases, and is distinctly more common in the mature form (50 per cent) than is the premature (56 per cent). The other type of issoon, paracomment of the proper cent of the issoon, paracomment is not more than no per cent of infasts. Like the harmorrhages, this shows greater loadence in the mature than in the premature fetter.

From the finding of hemorrhages in infants which had died during the first few days of hie from cause other than hemorrhage it is clear that at least the lesser degrees of birth hismorrhags are not necessarily fairs! What effect, if any they have on subsequent health and development is question beyond the scope of the present study.

In the cases reversed it was noted that large proportion of the materia showing rentronal raser delevered by the breech. This fact tends to confirm the prevalent opinion that the after coming head is particularly prope to softer leaves of the dural structure during its comparate by signal delivery. The influence of operative measures particularly of version—is shown by the annihilation of premature infants with tentorial term whose dehvery was so complicated.

TABLE II —THE INCIDENCE OF STILL BOXIN IN ARLATEON

manifest and and impositions and	710	
Lymna	*=	Two come
Capillary oping or practise	90	65
Intractabul hethorrhage alone	77	ρģ
Intracreami and vacceral hemorrhage Vacceral hemorrhage alone		35 75
No introcritage	50	
Tentorial trace	Ľ	22

The incidence of stillburth in the arrow groups of matter as in presenting infasts also a difference of 85 per cent in the rate in cases with capitary comings and pretches only. A similar variation—so per cent—was noted in the rate in cases aboving muningeal benorings; above The third, and per large the most striking, point was the roper cent cases of stillburths among the premitter instantances of stillburths among the premitter instantance of the contraction of t

From the emmination of these figures if a evident that many indicate with extensive bark homosphages are born alive and survey. I mimber of the cause investigated death occurred from some qual undependent conduces such as bronchapteumona and exploring, and in probable that best for the mire extens of such denses the child odd here revived beyond the protect of C. H. D. vs., M. D.

GENITO URINARY SURGERY

ADREMAL KIDNEY AND URETER

Encodenth D. N. Double kidney 4 Sarr 9 https://doi.org/10.00001/

The nuther defines the term double I does move under of die ange of different reported customer of the anomaly discusses I frequency and the more photosy of the tudings and urreter takes up now of the dissocial aspects of this condition and prematical aspects of this condition and prematical reached in the magnetis and the results reached in the magnetis of the condition in portion in the literature.

The more or less complet fumon a crossed ctops as due t the displacement of one lides; during embry our life rather than t eduplication of the embry one unreteral bod with the formation of perminent ladies around the crantal end of each of t o circles aroung from the same bod. The latter combinion is better designated as a reliabilities.

cation of the uretern and renal perken or as double kidney. One half of a borneshore ludner may be considerably higher than the other and one half may be much near the median line than the other but the two never be entirely on one and as an erossed extensive half because the period of the perio

the term double kidney implies the presence if double unter N case has been four d by the uthor in high there ere to unreters from single renal pelvia.

The incidence of double kidney was see coording

to different a thors from a per cent on the bases of a sutopaset a per cent using en by Wespet 1 the special is special to Eucodrath box or that from a 14 per cent is conservat we est man. At the M yo Came, dornag person of fifteen years, reduplication of the meters and kidney per box is a found to ministeral in 64 per cent of the cases and bilateral in 64 per cent of 1 3 cases reported by Papon 77 per cent ret uninisteral and 3 per cent bilateral bale of 36 cases, reported by Merta, 70 per cent

ere unsisteral and so per cent bilateral. In total of 6 or drophestones of the reter and renal position the conditions as found on one sade in 80 per cent and on obta deen no per cent of 0 the 50 cases (80 per cent) in which t as unsisteral the reduplication as complet in 30 per cent and incomplet in 70 per cent and incomplet in 70 per cent and incomplet in 70 per cent and incomplet in 80 per cent and incomplet in 80 per cent and incomplete in 80 per cent and incomplete in 90 per cent.

There m v be no sign of demarcation between the (a harive of the Audrey either externally or in termily). In some cases, however the expension may be more than the comparation of the control of the con

is rule the upper portion of the double kidney forms bout one third and the lower portion the their two thirds of the mass of the double kidney, and the priva of the upper portion is smiller than that I the lower and never as perfectly developed as a frequent in all anomalnes of the kidney there is no true pelvas, the urrier among directly as a result of the union of the normary calvers.

Double kathey may be associated with other associated several unstances he ebent reported in which each half of konestole kathey had to unstern and to o renal pel ee. The double kathey unstally bes it a title lower kerel than the normal from half if the kathey is by disroperhence, the unster from the other may be easily overloaded at operation. As a rule the unrest from the prep half of the double kathey crosses over loward but not beyond, the midline and is inserted unto the bladder both menal and caudal to the unsertion of the unreter from the low. half

The most common ectory terminations of the uncert are () the ect of the bladder with the unsel form of ordice () in the prostate urethin, as the usual form of ordice () the terminate urethin, as the usual form of ordice () the reduced of the source cases, the presence of mail uncertain ordice (a) the communication of both ureters in ordical termination of both ureters in the seminal dilatation (s) bland ending of one reter above or below (o) the ending of one uncert in the seminal versicle of the same under at that of the involved lid nev (r) endings either bland or by one ureters ordice in the female urethin, the virginal or the vestibule smally the list named, below or lateral the external unnary mention.

There is no essential difference between the various pathologic conditions found in a double kidney and those of a single kidney, and there are no pathog nomenic as improves inductive of disease of one or both balves of double kidney.

Of eighty cases collected from the literature only as per cent were disposed prior to operation I no oper cent the disposed prior to operate at the time of operation or from examination I the specimen Pyrlography is of very great and in the disposes. The disposes I surgical affections of the double kiloney is dependent upon the following

d in () the presence of in meteral orifices on one of both sides of the bladder () the presence of an ectopic orifice or other form of ending of one or both ureters of the double kidney (s) the after nate withdr all one mercent exhibit runtion of cka and turbed urnor from one bidney (s) the find or

of pyclo unetenography. The trentment of decase of the double kidney is the same as that of the time condition in the slage kidney. If one-hild of the kidney is discussed, beninciphrectomy should be done if possible. However as there may be a nange artery and error for both balves, as artery and yeth for each hild to multiple arteres and verus for both bal as, in is obvious that technical difficulties my reader that operation lapsopsible. C. O. Bicauss, M.D. operation lapsopsible.

Keith, N. M. and Pulford, D. S., J. Chloride Retention in Experimental Hydronephrosis, J. Exper. Med. 19, 3, 22201–73

In anomal experiments in like the urrier as solutariets by bould to produce by drosophrous the chemical exams strose of the blood aboved that cholends as will as term alwars are retained. If both the water and the chlorades the retained, the may be so precedible me in the blacker content of the plasms but it chlorades are retained and of the plasms, but it chlorades are retained and make the plasms but in the plasm to the plasms to a plasm to the plasms to a plasm to be plasms to b

After the removal of the ureteral obstruction in acute hydronephrous. It renal functions—as ter were, and chloride exerction—may be rapidly in stored in equal degree or the chlorides may be retained temporarily hile there is free exerction of water hild orms.

In chrome hydrosephrosis the degrate daily exerction of ures and chlorides in be kept up by & compensatory polysm. If the polysma fails, the percentages of these substances in the blood rerapedly V D Language V D

Himmen. F. and Beit A. E. Experimental Hydronephrasis. The Esilore of Diuresis. t. Affect. Its Ente of Development. J. Und., 9, 3, 12, 507.

Following double lightion and complet sever ance of the left unter just also the bladder in white rata uniform by drosephrova as produced Durens was then induced by water at the original produced graphs of the produced by the produced by

From these experiments the authors conclude that neither profuse polyuna nor marked observations an influence hatery on the usual development of by dronephrous in hits rats after completer in the profuse of the profu

Guyot and Jeannessey Partial Preissrephritis in a Kidney with Twa Uretera (Probesiohest partiche dans un rei h deux uterkrei) / d seel mid et chr. 933, xi. 37

Double ureter is not ery rare but the opportunity t follow the course of partial pyelonephritis in kidacy ith a double ureter is unusual The case reported by the authors as that of a nome y year and who do eloped collecting and fistila at years personally following the borth of a high. I operation performed this as months falled to effect closure and the pattern cutterful the bogglein again for further treatment. On cutterful the bogglein again for further mouds not be found, but an opening the claredter could not be found, but an opening the claredter could not be found, but an opening the claredter of the present covered let et en the hidder and the years.

After personales authors and new regions as consider a place operation as considered possible operating as considered possible operating and the place operating of the father was preally reduced in also personal traps at close it gain failed. Therefore the conditions took on a new phose abilitiest according pedesorphistic developed 1 an operation per formed January 1000, to bring the stretm out that operating its outeries are found on the right.

sale. The effect of the operation was excellent. The first eff, the appetite returned, and the patient galled cight lioweser on I many eg. tog: the left kidney had become a sac of poss and mephrectomy as necessary. Improvement three again resulted, the blood mirrores lating from a 6 of 1 or 37. Short of the contract of the contract

nature recoil aspections or sorterous.

After there years the sense drained from the two streets openings by ratheters and was collected as the same positions of the same positions, representational, and the other infero internal. A table is given aboving the character of the same from the normal and the state of the same from the normal and the state of the same from the normal and the state of the same from the normal and the state of the same from the normal and the state of the same from the normal and the state of the same from the same of the sam

arrise while the other yelded 1950 gm of char arrise.

From an anatomical standpoint a double arriver probably nears. double accular amply is in solitary ectopic, or horieshoe Lichey. As the arterial supply is terminal, the kidney with a double arriver must be considered double kidney (applementary).

kidney)
In the surgical treatment partial aephrectomy
may be done Legueu has performed five such
operations
Kristoon Sesim, M D

Herson, M. B. Pyelography Common Desprostic Friers. Caldama Matt J. H. 9 1 521, 92

The article cells attention t the area illn hack matakes can be made in the interpretation of re all contigenograms and discusses how they may be a coded by complete systematic examinations. The interactive as hirely renewed and mention is noted of the fact that thirt has been written any one of the continuous and the continuous and appears of the continuous continuous and tention in the site of the continuous cont

rections, such as too strong solutions and excessive regard on injection, are lated A series of forty seen prelographic pectures is reproduced and legislate containing the essential features of the case records are appended. These illustrat possible digislate errors due to incomplete examinations and fastly technique and present a number of causais or atypical findings. The bibliography is extensive. Joses G Caustra V, M.D.

BLADDER, URETHRA, AND PENIS

Sacchi G. Cystadenoms of the Bladder (Cistadenome della venca) Arch lei d in 9 3 m, 6

Sarch's case was that of a woman so years of gw who estered the hospital on account of severe kernatura. Cystoscopic examination revealed amount, broad based mass the size of people of grip to they out the jet unretral onfoc. As electronically the simple of the second of the size of people of the size of people of the size of people of the size of the

Vescal adenomata frequently undergo cystic degeneration because of occlusion of the glandular docts by the accumulation of secretion which produces dilatation

In the author's opinio the tumor in the case reported developed from some aberrant gland or an embryonic rest W. A. Buxxx.

Kidd, F. The Treatment of Epithelial T. mors of the Urinary Biadder Based on. Consideration of 162 Cases Personally Observed and Treated Leavet 9 3 1, 5 3 58 636

Malignant papallomata and some populhierous carcinomata d' not break through the muscular coat of the bladder until fairly lat As the muscular coat forms burner the lessons tend t spread in the submocous coat They also spread by local contact implantation thus taking place on the opposit wall of the bladder After they break through the muscular coat of the bladde the majorit he just hove the ureters re held back for some time by the overgrowth f dense fibro f tt tissue in the connective timesies surrounding the base and udes of the bladder and considerable overgrowth of the cins in this tusue. Less often these tumors he on the ingone and break int the rectum. When they re high up on the superior or lateral walls of the bladder they may rupture t the perstoneum or metastance t the pentoseum or h er armi metastams, however is from the pel se cellular freme t the aides ind the posterior will of the pelvis t the group of glands that he t the bifurcation of the aorta. From here metastass may occu t the lumbar chu on either side but this present be late event except in cases of rapidly grow g exca ting carrinons of the bladder

Bon metuativas is unusual. In cases of the comition malignant p pillomatous type of bladder tumor in the region of one ureter the hymbatic spread of the encorred his slow. The common cause spread of the encorred his slow. The common cause of death is not so much the linuxion of dutant parts as the local accedents of position, such as idiatation of the ureters and uremm, infection crystists and pelitis, enhancison form loss of blood, and spread of the condition to the rectum and periodem Historia for the control of the condition of the rectum and periodem Historia for the control of the theory of the such as the control of the cont

The old method of opening the bladder on its terror wall and mynary a sy his growth is not rethed enough. The bladder should be shelled out before it a opened and its blood supply, consider the could. One prece, the casion belog made wide of the growth. Nicolch of Trieste reported expenmental work on dogs in which he found that the bladder will quickly re form if all except the tingone is removed.

Of eight, of the other's patients who were seen early enough for diathermy or partial cystectomy fort one reknown the ship and well from seven televen years after the treatment

k dd classifes his cases into twel groups and comments on them as follows

(or p.1 maple primary or small recurrent populament. Thus group included it enty eight cases. Diathermy was poled through the operating cystoscope. The rak and inconvenience unto diremoving portions of bladder tamous through the cystocope for inscrience study seem to outseeph y and antage in the procedure. The degree of

malganacy must be judged from the chnical fandings if the best results are to be obtained. Some trmorn such poes malignant reset times tidathermy hale others which press the enging province traction, event. By requiring open operation and proving to be mulganal. The size of the patient in of relate the sight importance. The sign of the patients whose

cross are reviewed eraged at years, and the er age umber of treatments was less than three. All tumors appeared to be completely destroyed within few months. Of twenty-one cases followed up to on manches were without recurrence from lour

the eyean after the treatment Dathermy seems less apt the followed by recutrence than other treatment as the tumor is cooked as mit without handling. In it cases however recutrence developed any sears and the years respect left open operation and min of were shive and open operations and min or were shive and open operations and min or were shive and open operations and min open operations are the cases treated with datherm. I one of our there will have a state of the cases the state of the sta

throughout the treatment. The first treatment is a given uader general ansestheau in order the the centre top of the tumor might be destroy ed a cost ting. The debris was then saked way the bladder refilled, and strong treatment given the bladder refilled, and strong treatment given the produce. When these methods a mid, lesser these treatments are required and the cure in quoker. An interest mental arms of our reds as allowed the treatments.

The second of th

disease resulted.

Greek J, and pant popularia or early accuses.

In this group there are twenty-sizecases. It is often very difficult t decids upon the best method of treatment. The patient may be of advanced ago and without a history of previous kermaturia in the contract of the patient may be on the pati

yet present unele lurge somewhat build namelloma. th a broad and somewhat senale base till ery large cus renning int it Often disthermy will remove most of such tumor but sometimes it will fad. Of the twenty six cases reviewed, twelproved resident to disthermy. Four princits were then enbierted to nartial ra tectoms. Of these, two are also after seven cars and one remained well for three yours and then died of recurrence. One died after partial cystectors. Three were operated so by other surgeons and died from recurrence F we others refused treatment and died within tw years Fourteen of the tumors ere completely destroyed by the treatment. Nine patients have remained cared from as I seven years after the operation

"Great period or related (statistics). The group renatured twent eight cases. By practice appears are freed from its belief between the sketch of the street from its belief or its open the growth is removed from without with a large portion of the surrounding bladder will which manlly includes one writer and ben the urcer in cut it is implainted in the reconstructed bladder.

If the twenty-eight patients sub-reted it is operation trend by a red shedared beated a time period of from three reds to the, months Secondary complications were rer. Fleets or know to be fix and ell as of from latter more than one yet at len's years all the operation. Electron of the latter of the fixed of the probable that aftere error to the fixed of the probable that aftere error that all its of the partiest deel within soonth of the operation, one of portunous, two of beart (butter, one of prefets and its resums one of units.)

pentoneal operation, and one f shock due to rupture of the bladder statches while dresser as using too much force in irrigating the bladder

The operation as performed extrapentoceally because it afone more study in this manner of with less risk. Spanial anvisibeaus was supplemented with their sasteleaus. An incusion was made from the in public and the study of the control of the bladder then removed by cless cut for the control of the bladder then removed by cless cut for the control of the builder than the constrol of the provide and the provide a

distinger to another ten in the first removal from a third factor for the first from the first framework f

for cases. Total erasectionsy seems to be undersite ben as early appallations or observating caracious as acceptances and the seems of the block der and protocers the mouths of both urters. On the land the seems of mostliple malagnast polyre, such recurs as large unshers gain and gain and tend to fall the blastifier. The cases received were all of the first type. As such datastions of the artest favor according fection of the hympatics of their abwith consequent py fains and anima. None of the patients laved for more than three exists. Two deed of about, two of according polisics and mean with

eck, and one of arractable diarrhors after three weeks. In three cases the uneter were attribed into rection. I four stopes showed that all traces of the racissoms had been removed. I the fifth the tumor had spread t the pertineness.

Greep; sectorates; Of the prices subjected if the mono of the sectors of body of according to the sectors of th

Greap I presented I ign. There were eighteen cases of permanent cytostomy. In cases of severe strangury or constant clot retention this operation will pure great rettel and proboting it. I from a smooths to year or even longer. One case in this group as that of a boy 3 years of age bo had complete retention due to an epithelial carcinoma. But as undergoing, spike degeneration and the significant of the properties of the conlocate mortality, that unretrostomy and aff of the bootmust of amoltan own dathermy or reduin one mortality.

Group o treatment of advised or ref red. This group included twenty four cases. In most of them the condition was inoperable but the patie t was

comparatively comfortable

treatment

Group 1 ediam treatment. In this group there ere fr. cases Int very high dose of radium was left situ for thirty six hours. This stopped the armorrhage permanenth, but both nationts bed thin four months. Radium was used also in tw cases of carcanoma of the truenne bet een the ureters and in a third with mult ple recurrent papellomat Mang the bladder after previous operations by other surreons. In one case the urface of the ulcer became healed, bleeding crased, and the cystitis was sured but traces of the growth remained underseath. One other patient still has harmatures but her pain is iem Radium treatment should be reserved for cases of early malignancy between the reters and cases of multiple recurrent papullomata which fill the

Grap 11 merret diagnass A incorrect diagnoss was made in two cases. In one in which stoom was made in two cases. In one in which stoom has been supported in the case of the case of the condition was diagnosed as united the condition was diagnosed as united the condition was diagnosed as united accurations of the bis deep between the conditions of the bis deep between the cases of the bill deep between the cases of the case of the case of the cases of the cases of the case of the ca

the stretch but nothing was done and the initiant as perfectly well four years later. Bladd lessons shen may be confused with tumor re acut inflammatory ordems of the mouth of tuberculous

ureter similar ordema caused by the colon bacillus, stone impacted in the lower end of a ureter and

inflammatory papelloma

Grap 12 from publical psyllima of the said with In this group there was one case. The patient had been treated for types for goodfreen although the discharge was blood rather than pea. On merchanoscopic examination are long produced with the periodic disapped from the root of the within the resident disapped from the root of the within the resident disapped from the root of the state of the resident disapped from the root of the state of the resident disapped from the root of the state of the resident disapped from the root of the state of the root of the bladder. The methra shead by primary intention

On the basis of this series of cases the thor dra

the following conclusions

I cases of papilloma of the bladder of beings type diathermy polied through the cystoscope ill effect cure in at least 90 per cent of the cases

and is without the risk of opening the bladder. To open the bladder and any out such tumors should therefore be considered unnecessary interference associated with definite risk to life.

Diathermy applied through the cystoscope will gry cure also in certain number of cases of doubtful mydrancy. If it fails to exert an adequate destructive action after three treatments. It the most a brotal cystectomy abould be done

3.1 the treatment of maligna t psychiotic carry psychierosa caranoma, and even very early utcerstung caranoma of the bladder authoral or partial cyalectoms should render the old intra-excul operation obsolete except in few isolated cases. It is no operation of considerable technical difficulty and presents definite risk to hie but when uncreasing each of the properties of permanent curres than the older type of operation. All controls interact by two proposed is real-based up at complements and the control properties.

4 T tal cystectomy has been rendered almost obsolet by partial cystectomy druthermy and radium treatment. It should be reserved for cases of multiple mahamant papillomata which resust other treatment, and for a few favorable cases of early cartanoma in olving both ureteral openlins.

5 Ureterostomy presents almost as great risk to life as total cystectomy. When successful, it gives great rebef. d.m. few favorable cases it may be used as a preliminary to total cystectomy.

6 Radium cannot 3 t be substit ted for surgery though t has perhaps replaced total cystectom; 7 The tumors considered in this article should be

7 The tumous considered in this article should be classified from chincal standpoint as simple and mahinant pedanculated tumors and papilliferous and ulcerous sessile tumors. C. D. Holmes, M.D.

Neill, W. J. Th. Treatment of Carcinoma of the Bladder South M. J. 9 3 Xv1, 29

The uthor discusses the etology of carenoma of the bladder gives history of its early rational treatment, outle as his method of treatment, and reports the results obtained in a sense of 4 cases treated at the Howard A Kelly Hospital, Baltimore from 0 to 10

Bladder tumor is the most common came of blood in the unne. It may occur t any period of hie but is most frequent after middle age. It course is prolonged. Usualiv t tends to remain limited: t the hadder but in some cases metastases to the pelvic

Warner in 747 operated for bladder tumor through

lateral perneel incision. In \$75 Sumon removed growth from the multi-bladder intrough his ure that specula doubt in \$4 Billioth first operated microssfully upon the form of the superpulse of t

The chology of this condition is uncertain, like that of new growths chewhere. Some writers contend that in a large percentage of cases there is a history of chronic cratics or other mrt too but the author has observed this in a comparate cly small number.

The results of all lanshoad forms of treating cursons of the bladder have been a decursing and those obtained to the reducil removal of the tumors and by critectony with transjuntation of the treters have not been billiant. Before any form of treatment is instituted a test of the kadery function should be med as the cross of death is smallly unrating with infection of the entire sefary treet rather than the disease itself. Cystocorpy should be done for the same resson. The author recommends the use of the open sir cystocorpic trechsique of Kelly Because of failure I mak. cystocorpic cusmusation in all cases of kapsaturus an analy remained the properties of the companion of the cystocorpic cusmusation in all cases of kapsaturus an analy remained to prove the common able pupilion many be allowed I prace ever into

condition of hopeless malignancy. All bladder growths are potentially malignant. Pediaculated tumors with no nd ration of the nuncesa respond well t folguration, but all other types seem 1 be under worse by their treatment. A review of the literature shows the general consensus.

of opinion as t treatment to be as follows For all superficial or pedunculated beings papillonata direct intravesical fulgoration or removal by means of the cautery given by far the best

results

For infiltrating, definitely malignant tumors,
the only treatment followed by natisfactory results
is radical removal of the area of the bladder wall in-

of ed.

3. When the growth invol es both oreters, W to son's operation of total cratectomy of the primary operation for transpluntation of the oreters gives the best results.

4 Cristotom; excuson of the growth, and treat ment of the base: the the actual cautery should be used only in hopeless cases as pallicative measure to reliev pain and hemography.

Since 191 radium has occupied a prominent place in the armamentarium of man) large chines. Of the 142 persons 1th carcinoms of the bi dder who were treated t the How rd A Kelly Hospital from October 910, to M 3 19 felty fit were makes and cight) in are females. The youngest was 26 years old and the oldest 56 years. In fifty-one cases there as no other symptom than blood as the smoe the longest duration of this symptom as six) cats and the shortest t months I every case known to rus was a prominent symptom and made its appear labory of ance early Grenteen patient gr chronic o stites persisting from t to twenty cars In eighty aime cases pulliation was obtained for a short time only or there was no improvement of the condition. In fifty three cases there was definet improvement therefol ymptoms for long time or cure over period of three toars with no **recurrences**

The nibor has employed three different types of radium treatment, used either alone or in combina tion () direct, intravesical, or surface radiation (a) implicatation, or the insertion int the growth of tiny glass capillary points containing radium emanations and (s) massis radiation t a distance from the exterior by a y of sacral, periocal, suprapulse, and vaginal portals. I travescral treatment is carried out on all growths confined to and around the neck of the bladder papillomata, papillary caronomats, and infiltrating carcinomata. Patients with grow the other than these and without evident metast sesare subsected a superpublic section. The mera verkal treatment is given through the Kelly openair cratoscope the ridium being encased in beam expects attached t the end of strught sound ad held against the turner under direct vision maximum dose for each square centimeter of disease is no tegen her of reduction. Thus is not reneated under a period of su erk If the tumor is definite Is infiltraturg sexule carcinoma, it may then be treated by implanting into it small glass emanation

potett. The suprapulac or incruoual type of treatment is carned out in cases | thout endent metastags, cases of extensive infiltration of the blad for wall, large and multuric temors, and cases to which there is some doubt as t the exact extent of the bi dder involvement. If the tumor is large and definitely protruding, it is removed. It the conterp indits being is conter-used to check bleeding. All of the areas of the tumor are implanted, the crage total dose t each cubic centimeter of the growth being a 5 me. Suprapubic intravencel surface radiation is accomplished by means of multiple radium cripsules acreesed. At a mm of brass and 1 mm of rubber. The tubes to placed sale by side and the number used depends on the size of the twiner. Care is taken to everlap the edies of the neonlyses by con-

C D florages M D

Crosble P D Complications Occurring in Gonor rhoral Ucethritis. Resea M & J 9 3, decayal 433

The complications of a maple geomether of the anterior untilsten are few and of sight importance while those of infection of the postence surches are independed and two persons. The protective results are independed and two persons in the manufacture, the protection of the protection of the protection of the protection of the dependent of the protection of the protectio

or by direct extension of the condition to the bladder and kidneys or through the sat the epochdymis. The frequency of the which are teral structures is found on principle of the catheter suggests that involvement of the preters and kidneys is more com-

mon then is generally believed

The common complications of redema of the clans and the foreskin and a bloody discharge are usually cleared up easily by stopping treatment and having the patient souk the penis in hot water several times a day Abscess of the glands of the fossa navicularia or nomits externally artificial drainage should be established from within the urethra in order to prevent the development of a prethral fistula

In the prostate the immediate trouble is usually not very severe. There is usually only increased frequency with tenesimus, but in few cases the symp toms are very marked, with fever and prostration In a few cases an abacess appears which may demand surgical interference, but as a rule this ruptures int the urethra or the rectum Abscrases may be drained through either the penneum or the rectum The treatment of concernical inflammations of the prostate and vesicles depends the seventy f the symptoms Until the acute stage is passed no impations should be given light massage of the prostate and vendes, provided they are not too sometive, and the forcing of fluid usually suffice. The patient should be kept as quiet as possible and on a hight diet. The severe cases should be treated in hospital with rest in bed, comous hot rectal irriga tions, catharins, and hight massage every other day if the patient can stand it. If there is retention cathetensation should be done as often as comfort demands H t sitz baths are beneficial. As soon as the patient can stand it, anterio and posterior injections of hot 5,000 potassium permanganate solu tion should be given every other day and followed by light mamage

The next complication to be considered as in volvement f the epidoymus through extensio of the infection along the vas. This may occur in the scute stage of the gonorrhors or t any time later after the gonococu have died out and may be caused by other bacteria following in their wake. It is usually precipitated by excesses of one sort or another. As

rule t will subside with rest and the polication of ice packs to the scrotum, but as it tends to recur the enadidymus should be drained. The testicie is much more apt to functionate if the epididymis as drained than if the abscesses are left to resolve with the formation of excatricial times

In acute postenor urethritis there is a certain de-

res of tracomits but no permanent damage t the bladder

The treatment of stricture of the ureter is the passage of bougues through the cystoscope for chlata. Pyclonephritis of gonorrhoral origin occurs probably more often than a generally believed and tends to become cured spontaneously provided there a no obstruction t the outflow of urine and ther has been no previous kidney chacase

Urethral strictures usually follow severe types of infection but may occur in very mild cases as well If a filiform bouge can be passed it as ery much

better t dilate gradually than to do an external urethrotomy as there will be less scar formation. If there is a pen-prethnius or pencystitus, measion and free drainage are indicated

Of the blood borne complications the most serious as well as the most rare is gonorrhoeal endocarditis which is usually fatal. Thayer reports its incidence

3 per cent

Gonorrhoral arthritis may be caused by the sonococcus taelf in the roant or by the toxins produced by this organism t tends to be monarticular and has predilection f large joints such as the knee elbow ankle, and wrat Th treatment is the same as that of arthritis due t any other cause The author does not approve of the use of vaccines

In chrome posterior urethritis there is infiltration of the submucose with round cells which changes the elastic tube into t be that is narrowed and resistant to dilatation. The treatment indicated is a contunned course of gradual dilatations each followed by the application of a 4 000 solution of alver nitrat and massage of the prostate and vesicles

C D Hotatta, M D

GENTTAL ORGANS

Lasser, H. 'Th Absence of the Prostat Associated with Endocrine Disease, Notably Hypopitul turnem with the Historics of Lighteen Cases. Enderredogy 923, vn. 2 5

The author discusses the tatus f the prostat as gland of internal secretion the influence of the testicle on the prostate the influence of the names! and suprarenal glands upon the prostate the in fluence of the patentary upon the remtaha and the secondary sex characters and the prostate in charact hypopatuitarism

He reports in detail eight cases of pre adolescent hypopituitarism f the Levi Loram type of m fantilism. In six, the prostate was absent and in two, very small He reports also five cases of predelescent hypopetuitarism of the Freelich type In four the prostate was absent and in one small Other cases reported are t of dyspatintarism gogs turn and infantiham Neurath Cushing type and three cases f eunuchordism

The points brought out in the discussion are as f Bow

The prostate does not develop if castration is performed early in hi

Though normally developed the prostate will atrophy and eventually desppes if castration is performed n th adult

3 Castration has no effect n the hypertrophied prostet 4 In hypogenadism or cunncheddism the prostate

trophes 5 Goetsch showed that feeding the anterior lobe

of the patultary t young rate hastens the development of the prostate 6 Many investigations have shown that expenmental hypopatuntarism is followed by sex in

fantibum, including retarded development of the prostate

? I chinked hypoperutarism in the male the prostate fa is t develop if the disease begins before puberty and atrophies I it has its onset after nuberty CREEKY J TROMAS, M D.

Duettmana, G. Renal Insufficiency in Protestic Hypertrophy (De harrensunfunens bei Provinta hypertrophie) Beur Hi Chr 9 3 (221714, 79

Duettmann examined leven cases of prostatic hypertrophy ith regard to kidney function deter m many the quantity of times excreted the concentration po er of the kidney and the retention of

nitrogen in the blood

I four cases there were signs of Lidney insufficuency These are divided into t o groups functional disturbunces, and (s) organic renal issufficiency l'unctional dut rhances are character ured thiefly by poor repal concentration po er This leads t retention of salt with poherla and hale the excretion of nitrogen is re polydrona ats ely good. It is due t pressure marry of the tubular epithel um I such cases ta singe opera tion is indicated because, as rapid restoration of the kidney follow the formation of a bladder firt is the prost itectomy can be performed litter inhout da ger. In organic insufficiency in which there is also retention of nitrogen in the blood, only the formation of a bladder fistula should be done | Lorso (X)

Pupin and Verline The Treatment of Carcinesse of the Prestate with Radhum (Sent de la de cremon sur le traitement du cancer de la provinte pa les applications de réduca.) I d'urel mét et cher to 3 KY

Panen reports eleven cases he treated with radium In only one case was large tube of radium unplanted in the prostatic bed after prostatectomy This patient deed. In the other cases radium needles ere treed. After trying different methods Papus has

dopted the following technique

A summerable opening is made and the bac and by populating regions are palpated for enlarged glands If these are found, only systetomy is done After closure of the perstoneum, the bladder is opened and the per-cervical region is pulpated to determine how in the neoplasma has developed internity. The usual cystotomy follow If the case is considered one in which the polication of radium will be beneficial, account operation is done ten days later. Through penneal incision the seedles are placed so that they

ill irradiat the cancerous muss in the prostat and vesseles. A finger is naerted in the bi oder opening

to serve us a grade

cases death resulted early from rapid To t necroses of tasue I three, there has been such marked improvement that a permanent cure is posmble. In each of these cases the prostate has shrunk

Paper believes that the cases I vorable for the application of radium are also those in hick surposal treatment is policable, but that a successful result may be obtained with radium in cases in which the operative risk is high. He is not sore, however, that the improvement so far noted is not merely an arrest of the care normatous process by the sciences follow ing the use of radium

erhac reports the findings at autopsy in four cases of prostatic or versco prostatic cancer three in the early stages and one in the late stages. In three of the cases death occurred (well (wenty and twenty three days after operation respectively. The operation consisted in inserting radium takes int the prostat through the perneum and leaving it in place for forty eight hours I one case, in which durrhors occurred, congestion of the mucosa of the large intestine without alceration was found at autopey I the t others is which there ere symptoms suggesting peritonitis, asarked distention of the large bouel thout pentonits or mechanical obstruction was found 1 \ erhac's occasion radium used for the treatment of carcinoms of the prostate may have a dynamic or irritative action on the large

Verbac" fourth case was that of man 60 years of age T t bes of radium sulphate, 6 cg each, were inserted into the right lobe of the prostate for forty curkt hours. Death resulted thirteen months later At miopsy the right lobe of the prostat as found t contain an ares of netrons surrounded by fibrous thickening buch probably represented the destroyed curcusoms. Outside the fibrous sone the prostatic tusos showed fully active and recent cancerous KILLION SPEED, M D ATCR4

intestine, particularly the rectum

Windsier V The Development of Non-Genor rhoral Epstidymitte (Zer Entstehren der Louisteautu non gonorrhouca) Zentrellé f Chr. 9 1 L lo

ther reports the development of bilateral supported, inflammation of the epidelymus in case in which perment fistul formed as the result of very obstimate structure of the arethra. Follow ing lighted of both wass deferrable to prevent an ascending infection fatalit formed at the sites of the bestion ad dramed units in this stream when the patient strained This forcing I the urine through the wass deferentia is andoubtedly the came of the supparative epididy nuts. Therefore whenever epublicantia develops in case of character of the anany tract in Inch straining is necessity to empty the bladder (prostate hypertrophy stric ture) the possibility of smarry indiffration as the VOLUMENT (Z) cause should be borne in mind

Lipschuetz, A. New Esperimental Data on the Opertion of the Seat of the Endocrane Function of the Testicie. Enderraniegy 923 viz

Taxeller and Gross, Steinach, Sand and Lip schoots have supported the theory of Botton and Ancel that the endocrine function of the testicle in mammals as mediated by the interstitual cells. Without adding new data, Kohn, Benda and Starve bave ttacked this theory claiming that only the senera

tive part of the testicle has an endocrane function Linechnetz report the following experiments in sproport of the work of Bounn and Ancel.

I determine whether normal internal secretion of the testicle is possible a thout full develonment of the interstitual cells one testicle and half of the other ere removed from a month old rabbit. At the ead of eight months the penus was miantile The eunuchordism was probably due t the under development of the fragment. Microsconic examina tion showed spermatogonia surrounded by cells of Sertoh The intert bular tissue was chiefly con nets there The interst tial cell ere poarently mfantile

That incomplet enermalogenesis as not the cause of the euro hordism is demonstrated by the

following observations.

Undateral castration was done on t of three rabbats in weeks old. In one the penis remained infantile at the age of ix and, half months and the testacle as twice the use of those of the control The enalsh mas was full of spermatozon and the tubules were in full enermatogenesis. The inter-

statul cells were underdeveloped

T determine whether spermatozoa are necessary for the internal secretion, the left testicle of twomonths-old rabbet as mened, the increon including the ductus enoughlymadia on the right sade. The animal remained eunischood until the acventh month I the eighth month the penis had assumed the are f the control Examination f the left testicle showed that the tabules are enlarged and had exidently entered int mormatorenesis M 5 layers of cells had desquamated. The intervitual cells ere well developed and several mitoses ere found The findings the right testicle were sim la Spermatozoa u re not developed

T determine hether full bormonic ctivity f the testes is possible—the beence of all tages of spermatogenesis the left testicle and all but small part of the upper pole of the right testicle of tenday old guiner pig ere removed. At the end of four months, the nimal which was fully developed as killed. The seminal vesicles ere found normal All of the t bules ere degenerated, thouly one layer of cell probably cells of Sertols Apparently there was some opermatogonia. This observation seems t prove that full hormonic activity is possible

in the beence of Il of the stages of spermatogenesis It is possible that after the seminal tabules had remained in an under eloped stage for certain time signs of castration would have presend, but in an animal treated in the same w y no somatic signs of castration er observed in period of eleven months. There is no proof of temporary regenera. tion of generative turne to explain the maintenance of sex characteristics

Another possibility that the testicle may be ble to perform its normal hormonic function without the different tages of spermatogenesis but that spermatogenesis is necessary for the development of the interstitual cells. In one experiment there were nfantile tubules and infantile interat tial cells with cumpchoidism, while in another the tubules had regressed to an infantile stage but there were adult interstitial cells and sexual maturity. How ever t is possible that beginning spermatogenesis if not a complete cycle is necessary for the develonment of active interstitual cells.

T determine whether the testicular hormonic activity may be beent when the interstitual cells re present a large numbers as claimed by Bell, Benda Durck, Belbhager and Steine incidens were made through the testes and ductus endidymidis

o both sides of an amin'll two months old. The mal remained ennuchoid for aix months. Sperma toreness ceased. The interst tial cells were inner ons and extraordinarily large. The protoplasm was packed full of f t droplets. The nuclei were apparently normal. The questions as to whether the interstitual cells were truly normal and whether the eunuchoidism was due to their abnormality or the cessation of spermatogeness require more expen-

ment I work for answer

Strey claims that following unflateral castration the h pertrophy of the remaining testicle is proof of the endoctine function of the generative part A large number f experiments ha demonstrated that there is no hypertrophy when all but a small fragment of testrole is removed. This small frag ment can compensate for two normal testucles Lyndenthy some other factor causes the increase in weight of the remaining testicle following unilateral custration. The cause of hypertrophy of the interstitual cells seems t be some local factor

Bresca demonstrated by means of castratio that the uptial feature of the male tuton is under the control of the testicle. This was confirmed by Aron Stieve innested that so long as no interstitud cells are found in the triton the hormonic function of the testis in mammals cannot be performed by interstitual cells. Aron localized a special structure above the hiles of the testicle which he destroyed a th the galvanocauters at the time of heat. This had the sam effect as castration Fxamination she ed that the generative part of the testici was not disturbed. Following a detailed study of this structure Champy stated that these cells arise from the cells of Serioli

Normal endocrine function of the testicle is not possible thout terference by other glands with an internal secretion. Bell has called attention t the relationship between the sexual and the other endocrine glands From the experiments of Steinach and of Sa d on heterogenual transplantation of the ovary and testicle it seems probable that the influ ences of the other endocrine glands on sex characters go through the sexual gland as medium

I conclusion the author emphasizes that the various experiments performed have proved that the normal hormonic activity of the testicle of mammals is impossible in the absence of fully developed interst tial cells. A testicle a th sperma tosos with undeveloped interstitual cells cannot

perform its normal endocrine function. Normal endocrine function is possible when only the cells of Sertiol and spermetrogonal are present in the tubuler. The sex characters can be normally developed when only a 1 per cent fragment of textude is present. Possible the interstitute of cell receil some dispute from the developing generati a cells is intra uttern bite. C. D. Program, V.D.

MISCELLANGOUS

Dillon, J. R. Pre-Cancerous and Early Cancerous

Lealers of the Gerite-Urinary Tract. Collarse Side J. H. 9.1 xtl 148 Before the cancer problem can be solved the lalty must be educated: appears the samplease of the carllest symptoms and the mportance of carly

di gnoss in order that the complet removal of the

In the crac of ma part 50 years of age who complains of dyams or prain in the perfection or rect in malignancy, should be suspected if on rectal palysition form nodule in found in either lobe of the prost to or one or both lobes are thickness and infallitated among the assessment resides.

Hematuria without app rent cause coming ith a sudden owner and often craining abruptly is an indication for an immediat faverity through preferably during the stage of gross bleeding, hen it can be determined whether the blood comes from the bladder or kidness.

Muligrancy is suggested by thickening or necrous of the papelle, orderns at the base of the terror northles in the mucous near the tumor or findur tion felt on rectal or a ginal palpato Mahiganory of the kidner, and unterst causes no early improven and even death may result, it hour any cluded evidence of renal used ement. So long as surprise remains the only method which offers a chance of cure the treaths of firstances if depend more appears and comments dispossible before metistials has taken place than upon any particular radical technique.

Dillon concludes has article follows

1 The diagnoss of beginning malignancy depends upon the patient—early appearance the recognition by the physician in general practice of closical findings—therating—irrological exhall atten other thathose defaulted variang in the grant unnary tract.

is: (i) a history of hematical or pura, though the unable at the time is negari. (i) pers we blood in the same though there are no chazed symptoms suggesting involvement of the unnary tract (j) a turnor in the upper lateral part of the ablomes or the engagedisc res. (i) X ray shadon seriestating the location of insuch it the amount of the control of the control of the control of the rate of the control of th

It must be expected that large number of the diagnostic tests all be negative but begat urological d ta are often fully as all ble as positive data.

3 The long duration of symptoms before the patient is completely extramed in the greatest stambling block t an early disposal of beginning subgravery. Knowledge of the importance of an id, ang early agen and symptoms must be sparad not call among the last but also among general practitioners, if the results of trainerst are t be improved.

SURGERY OF THE BONES JOINTS, MUSCLES TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

Eduction, G. H. Spongy Frontoels f th Long. Score, Garges H J. 9 1 N. 73

Spongy enatones smally arise at or near on extremity of the duplys as no done promising to the epiphysis. Sometimes, however, they occur at distance from the bone extremity. They are more common in the femur and tibat than other long bones and where bony growth is most extens, e and prolonged.

Enotones are composed partly of cartilage. They are amonaly ammed chood no obtomata, onesting choodromat and cartilagnoon enounce. U sally the cartilage forms—cap over the enacellors bow over. It may be lobelated and form datunct procure it is at the cartilage forms—cap over the restriction of the whole the cartilage of the cap of the cap

Burne present over the certilagenous cap may

become inflamed and suppurate

Exostoses may be of the spinous form, almost sensile with shightly constructed, short broad neck, or pedunculated. They tend to assume an oblique postion. The pedunculated exostoses may break off.

I terference with normal bone growth occurred in only one of the series of cases reported by the author. This was case of constons of the lower cod of the radius with stunting of the radius and stunting of the radius and curvature (the ulus. In cases of multiple envisiones such miterference with ormal growth as not inference.

Exotoses seem t arise from sequestered portion of the epithyreal carthliginous plat. Osafication and continuation f growth correspond closely with that of the parent bone. Clutton, tates that exostoses sometimes, begin after general bone growth has tensed.

In some cases nakets may be present but the author behaves that as complication

Deformity may be the first sign of an emistons. It may be due to swelling or secondary curvature it the bones. In soon cases unjury may first call ten bon t the existions. Supportative burnstin may be prominent feature. The growth may be discovered accidently.

In cases of sample existens the treatment consists in removal of the growth. In cases of multiple existences the removal of those that cause pain or discomfort should be undertaken.

The ten cases reported by the author were as follow an estecchendroma of the sternal end of the clavicle an exceptions of the lower end of the radius.

apongy enotions of the first metacarpal bone, a nordistrict exotions of the posterior end of the thate results of the form with fracture of the pedicle, and that of the form with fracture of the pedicle, and one of the form the region of the adductor tabercle apongy exotions of the upper end of the tithat within the cipsule apongy exotions of the upper end of the tibin due to many a spongy exotions in the lower end of the tibin with def many and multiple accounts. If the contraction of the permutiple accounts of the tibin with def many and multiple accounts. If Down Mirrocarps, M.D.

Koslowski, A. A. The Morpholosty of th. Blood in Pretumococcus Infections of Bones and Johns (De Morphologe des Butes bet Peremokoksenflek ton der knochen und Gelenke). Verkesell d. Russ Chr. Purpeyf.Ger. Petrograd, 9

For years the author had made systematic blood camminations in cases of surgical disease because the variations of lencocytons and neutrophila constitute an important criterion of the reacts of the body to progress infection of yeomparing the clinical parties with the blood count—the increases in the leucocytes indicating the organic resistance, and the percentage of polymorders indicating the intostration of the blood—he classifies cases intitle following they groups

Pyremic leucocytoms of varying degree neutrophiles less than 85 per cent

Septic leucopemia neutrophiles more than 85 per cent

3 Septico pysemic high leucocytosis neutrophiles more than 85 per cent

The osteo arthritic pneumococcus infectious are more frequent than is generally supposed. From a careful study of seven acut and thirteen chronic cases in an rthopedic chinc the author came to the conclusion that after the subandence of the initial symptoms as well as after subsequent fietule formation, the condition is often confused with When the focu are closed, puncture tuberculom often reveals no pus, the exudate is scant and rich m fibrin and, as t a difficult to applicate, the bacteriological examination is often not made. Bacteriological examination will always show characteristic gram positive diplococci. Howeve cultures fre quently fail even when special media are used, as in chronic cases the bacteria are usually intracellula or are co taminated with taphylococci. The following \ ray findings speak against

ruberculous narrow sharp crossons in the pupilyres, marked personatic cost around the displayer, and procedured areas of slight distriction in acute cases a which these displayers are till absent the blood examination in particular value in the differential displayers and proposes. The blood perturns it that for pyrams and indicates tendency

on the part of the entre arthritic passensectors infection t form metastase. The lymphosytosis characteristic of tuberculous a absent. The run-lance is usually not high, the forecopy into as moderate the necessor in polynoclears in slight, and the neutrophila distanct. I severe cause the tablood neutrophila stanct. I severe cause the tablood to be controlled to the neutrophila rise, the blood polynomial to the neutrophila rise, the blood polynomial rise, the slow property trained specific This is the asson cause not property trained.

sepile. This is time also in cases not properly treated. The treatment about the expectant. Operation should be delayed upossible for the weeks after the beginning of the cheekse and should consist of pureture or sith incusion followed by the injection of souther notiform giverne. The effect of the cruitance is the certain rester transfer.

emulaton is to certain extent specific

Bloodgood, J. C.: Bone Turnors Surcome, Parl otted Group. Omifying Type—Bennen Outfying Parlottitie and Myoutin. J. Raini C.S.

Confusion of terms arises in designating types of sarromata. The thor suggests the term "ossily ing to describe the type in which bone formation predominates. Being ossilying perioditis and

benum contying myonis are known.

There is also an conflying sarroma. Since this has also ye been periodeal, the uthor suggests.

calling t omelying sarcome

caning r ossily as around.

In one group of lone leases there remains in a new group of lone leases the president Exploration revels unmilitated normal soft parts and as unthankened personeum. The president strips back from normal, white opaque lone, Strippung back the personeum revels must drop of blood from the havernas cunals. The first change from the normal is absence of blood and

dark appearance of the bone

The shell of bone may be as thin as parchasent
but feels like normal bone. It may be skettly

touch, or may crepitate

Therefore may appear as a central bose know with an intext bone shell Syphilus and progress extremely the have sover been noted as our an ossetting permonal expecually from hyper compliance, the may be a compared to the comparison, there may be a control bose lesson with an intext bone shell and without outlying peroutly to the control of the con

Fractures may occur in all types of central bone lesions. Ossification never takes place in the central lesion except in the bone cyst or ostims fibrosa. The author classifies surromata as follow.

A Confying type (arressive periodical bose formation) (1) the shall beneath the bose formation appears normal, () the shall beneath show outcoprocess or destruction

Cases of Type A are the more common The diagnosas of sercoms can crually be made from the X-ray pacture alone, but sometimes chronic outer mychta, syphihs, traumatic periosteria, sayoutas,

and exostons cannot be differentiated from this

B Scierosang type () httle or no persosteal bone formation, () considerable bone formation, (1) excessive persosteal bone formation

C Cateoporous Destructive type I the arly stages the may resemble astroporous from non one D Defants palpable periodical temors in which the X-ray shows no boos formation

On pulpation, excessive ossilying periosteal aar contata may suggest beingn exostons or ossilying periositis

John Mirchard, M.D.

Hallback, A. C. Fibraus Ankylosis, Its Prevention and Ramedy. Med Times 1933 h, 148

The author stresses the unportune of early manage that passage motion after fractures epidyment separations, dislocations, speaking, and other linear temporal of cartavasated blood, cames gradual recession of the oxiders, prevaits stiffness, belgs to check meade wasts, prevaits stiffness, belgs to check meade wasts, prevaits stiffness, belgs to check meade wasts, prevaits stiffness, belgs to check meade on the flowerer in increases of the parette, the based on neck of the femine or humerum, and the electronic process and neonighet fractures of the epichysecil part of long in complet fractures of the epichysecil part of long

boses us general, it cannot very oil be given.
Of total of 486 cases of 6bross ashlyloss treated by the value at St. Luke. Hugatal and the Hospital (for Replured and Crappled not Very York, My were dacknared as curred and A1 as improved. In fact their was no improvement and the theory of the composition of the composition of the filters and one of fractures and other improves and arbitrates. D m. III Lenvings, Mb.

Function, R. V. A Clinical Study of Thirty Cases of Matecular Dystrophy. J. Box & Joint Surg.

The author studied his thirty cases of situicular distributy from the climical, metabolic mive and emparable standpoint. H gives Erb classification of the various types the consider very thooroughs. The article is the consider very thoorough in This article is complementary t the article of Furniers colleago. Of hose, Martha, and Bould hich perared in the

Archers of Internal Malexase in 92.
Function states that in neither the juvenals nor the maintile forms is the reaction of degeneration present nor are there any fibrillary to tchings. If

quotes Gover conclusions as follow.

The datese is almost sever know t be

The dateset is almost never know t be transmitted through the father

The data of onset a important the vootiger the age of onset, the poorer the prognoms

3 Pes equinos is the most constant contractore 4 The ability to stand is usual! lost bet een the tenth and t effth years I age and death occurs bu

twen the fourteeath of eighteeath earn. Funden states that the hypertrophic and tropher types in the infantle variety should not be strictly differentiated as a appear, that one may often follow the other in the ordinary course of the disease. Of the sense of cases studied twenty five is those of

males and five those of females. The a crage age mijjyears The oldest patie twas 38 years, d the youngest a years. The a erage age of onset was from the oldest if years and the youngest a few weeks Twel cases were treated for from tw seels t three months a th various glandular ex tracts (pituitary adrenal, parath) oid, and pincal) arthout any ppreclable effect. Seven cases acre treated with calcium lictate, and eleve th mas sare and exercise (either with or without glandul treatment) The author believes that colcrom lactate as of some benefit

T el of his cases were alowly progressi moderately progressive, and nine rapidly progressive Il amermana testa made in fourteen cases were nega The microscopic blood picture was normal in ax cases examined I all cases the reflexes, with the exception of the cremasteric and abdominal reflexes.

ere either absent or greatly diminished. Microscopx examination of muscle, made in four cases showed the fibers to be pale and a th diffuse areas f granula degeneration and vacuolization. There were also areas of fat infiltration between the fibers The strations ere present acept in few areas where complete degeneratio had taken place

In summarizing Function states that I seems very deficult at the present time, either from the evidence presented by many authors or from his own observations, t dra definite conclusions as t the etiology of the progressive muscular dy troph es. If one is influenced entirely by the theories o endocrine on gra he will find many stumbling blocks. It is hard to beheve that cystic tumor other disease of one of these glands can al va locate teelf in must the area t cause enestedly the identical or almost dentical chancel entity. The evidence introduced in this respect does not alw vs seem to be entirely sound On the other hand, the recoveries reported in the interature and those in the uthor, own cases seem t be beyond question. In progressive muscular dystrophy there is not the low I tigue coefficient, thin physiological limits, that one would expect t find The muscle fibers which remain unaffected by the disease seem to be acting t the extent of their normal limit. It is generally conceded that the amount of blood engar is low and that when sugar is fed it is rapidly excreted. Possibly something happens t the muscular substance which should activate the transforming enzyme T determine the chology of the condition more pathologic and chemital study must be made by men who go into their work with substantial knowledge of what has aleady been said and done the ubject

Panie Lawry M D

Tubby, A H Dupuytren Contraction f the Palmer Faccia Precidence 9 3 CE, 14

The author gives an excellent description if the onset of the contraction and tates that microscopic and bacteriologic examinations of specimens disprove the theory that it is due t infection of the palmar fascia entering through the sweat glands of the palm and canning a chronic septic lymphangitis He believes that the co traction is fibroutts or the local expression of some subtle change in the bodily metabolism It frequent association with heuris team and almost constant associati with a source of injection suggest that I has some relationship t

low grade sepan, particularly that arming from infections in the al coli and gums. Just as arthritis deformans is more common in injured joints or those which persistent strain has been thrown, the con-

traction appears in the palm which is exposed t trauma and mutation

The w de dissection if all involved thanks is d ocated In dditton, an injection of fibrolyun should be made t five or six points in the surround ing tissues before closure of the wound. This, T. bby believes, will prevent return f the contraction. The after-treatment is solution in full extension for week, followed by passers motion to prevent stiff BILLIAM II BYTOMD, M D

Moore, B. H. Abnormalities of the Fifth Lumber Transverse Processes Associated with Scintic Pain J Bons & Jorni Surg 9 3

There is still a de divergence i opinion regardine the relationship between abnormal transverse proc eases of the fifth lumbar vertebra and sciatic pain Adams in o first suggested that such abnormals ties might be the cause if the associated analics The Y ray often reveals sanged or sacrafued proc cases persons without symptoms, but persons with severe sciation may present sacrahized transverse processes

The the reviews nine cases. The first was that of woman 24 years old, the mother of four children who for five years had had pain low in the lumbar remon and in the pper part of the left hip just out aide the sacro tha joint Examination revealed a moderat hat to the right and moderat tenderness over the lo er portion of the left lumber muscle In forward bending there was pain in the left hip bout m outside the sacro ihac joint, and the spuse could not be brought beyond the vertical The muscles of the left thigh and leg were less firm than those f the right Sensory changes were not The Wassermann test was egutive

ray stereoscope plates revealed on the lost side large fish tailed transverse process which, in its upper portion mpinged on the ihum N arthritic

changes were seen Operation performed February 24,

sasted of transversectomy of the left fifth lumber The postoperative \ ray examination vertebra showed that not all of the process had been removed The patient made a good recovery and has had no pain since three weeks after the operation

The second case presented long, hypertrophied fifth lumber process on the right side which was in contact with the ilium, and strong fibrous cord extending from the trp of the process t the inner surf ce i the shum A transversectomy was done and the cord cut free

tonsilectomy

The other cases had similar histories and physical findings. In one the author excised the portion of the imm unplaged upon by the transverse process. Transversectomy was not done. In another case with right acture pure and marked limitation of motion in the lumbar spine complete relief followed.

Several theories have bee offered to account for the pain one, that it as produced by pressure on the soft parts between the treasverse process and blem, another that it is caused by arithus or unitation of abnormal borne or point. that, that it is done to straid of the sacro-thate and lumbo acresi posts can be severally assured to the transverse process and a contract of the process of the sacro-that and the process are only to the process of the sacro-that and the process of the contract of the process of the

In none of the cases operated upon by the author was muscle found interposed between the process and the thirm. Author were burned discovered. I Moore opision the loverage theory seems most

plaumble as leverage a ould cause shifting of the cuttre fifth lumber vertebre.

Various methods of treatment have been employed and all of them have given good results in creatia cases. Opinion differ as to the results of operation. The author made. 6-ln also flooring over the posterior portion of the line creat surpposed the number and ji test imascless subpensionally from the creat, and removed segment of boos a by m from the think creat where the transverse process.

injusped. N plaster or braces were used. The patients got out of bed in ten to fourteen days, and back bending exercises were begun as soon as they were pospible without disconfict. Keep Mrmsern, M.D.

Nuttail, H C. W Tuberculosh of the Secro-Hac Joint Lauce 223 cc 430

The author surveys the hierature on this subject and presents the records of nine cases. The sacroilise joint is an arthrodual or ghding type of that The largements may be divided into two groups, the capsular and the accessory. The capsular braments are the superior interior auterior and posterior sacro iliac, and an interesseous. These are blended together to form the capsule and preweat the spread of pus posteriorly. The accessory bgaments are the great and small sacro sciatic, the sacro humber and the ilio humber and the fumber aponeurous, the tendon of the erector spanse and the fascia lata. These, by their extensive attachments, prevent excessive movement at the joint atout pelvic brace after extensive and provide resection

Moreosents of the sacro-list yout, which are imited in extent, consist of an ap-and down and forward-and-backward shiding and sight rotation on a transverse axis. During pregnancy these movements are increased

The nerve supply consists of the superior glutted and branches from the anterior and posterior primary divisions of the first and second sacral nerves. The lumbo-eneral and obturator nerves are related to it anteriorly. The nerve roots concerned include practically all of those forming the kunho-

secral plerry

The intimate relations are above the inaces and posses, below the printoms, the supersegisted serve, and the glateal ressels posterorely the desse kapments and the erector spans actionary the internal time vessels, the lumbo-secral cord, and the softmatter nerve enternally the item overed by the glated and misensity the upper sacral formers and the sacral nerve rotes.

Same that tuberculess is rare as compared with inhorateless of the prince of high. With regard to its age studence the sidor states that his principles were bettern to and so years old. Free were levales. The primary focus is invariably in the horse, and more frequently in the across than in the horse, and Neurose occurs frequently and scroperts are cross. Abscrass form and in giveria, follow the base state to the thigh or upward into the time of least resistance, extraching other down the passes state to the thigh or upward into the time fosse. As rule, the abscrasse are mix-prince. Extra perior abscrass posts into the buttoot.

The symptoms include swelling or limp which in some cases follows an injury or grain. The initial symptom is mustly pain in the lay, the heat, the lower part of the back, the battock, or the smore sides of the limb. Usually this is worse at night and hight encloses due to the battock or the smore of the sound limb. Tenderness may be noted on pressure directly over the postero inferior slar spine, where the joint closely approaches the surface. Later suppas are refer usually although and lordens and flemms of the lim, mustle strongly lordens and flemms of the lim, mustle strongly critical loyd.

The X-ray will show bone changes after the

disease has progressed one or two months

The conduces must be differentiated from active unfections (po spens or gonerhous) over arthritis and sprain, affections of neighboring bones and point, surceins of the lumbar vertebra, true scatter norms, tumon of the canda acquising, growthe sat the pelvin, swarann and uterine disease, and appendicts

The prognomes unferorable. The only case in the subject series which was carred was the only on subjected to excusion. Proque, however reported five curse in seven cases following radical treatment.

Is the thor's opmost the old method of treat ment by treplaning and caretting was not sufficiently reduct, and the value of the bose graif operations described by Americas surgeons in doubtful Children however should be treated conservatively

In Pacque method of treatment the joint is proached by cutting away the overlapping por tion of the inem, part of the sacrum is reacted to primit the complete evacuation of any intersperse. abacese, and a smooth granulating surface is formed in the discussed areas by means of gauge or curette. The entire area is then a abbed with 'bapp and the wound nacked with game souled in sodoform empleion. The ends of the packs are brought out at the middle of the increson and the increson is sutured After forty eight hours the packs are removed under nitrous oxide sagesthess. The patient is kept in bed with the pelvis firmly bandaged for four or five weeks, after which time a pelvic belt is fitted and he a allowed up on crutches. Usually the crutches may be discarded at the end of the twellth week D word H Lawrence M D

Blaton, E. S. Sacro-Illac Arthronia Obliterama Am J Recutered Q 1 1, 89

In studies of the lower part of the spune in approximately ,500 cases, unusual changes in the sacro than you to were found in eachteen \$\ \tag{1}\ \tag{1}\ \tag{1}\ \tag{2} changes there is history of dull pain, soreness, and stiffness of the back, and an uncomfortable feeling to the lower spane, which increase in intensity from a period f several months to a year There is no history of injury. The clinical findings re spinal mendity with limitation of motion of the lower back localized tenderness over the sacro shac tounts and the lumber some and a variable degree f atmoby of the erector sound muscles

In most cases the condition is labiteral. In early fount disease the mentermorram show comparative decrease in the sharpness of the joint edges which may be due t localized ordems and swelling of the articular surface trames. If the disease has progressed, the shadows indicate erosom of the articula surface edges, the interarticular distance being apparently increased. If the disease is more progressive there is considerable decrease in the interarticular distance between the sacrom and the thum due t loss of the intervening carribage. An advanced case show total obliteration of the m volved joint coulting in synarthrous. In some cases reparative process is evidenced by bone hyper

trophy around the obliterated joint There are no ery marked differences between this condition and typhoid spine. Septic arthritis results in synarthrosis depending upon the irulence of the investing miero organism. Chronic hypertrophic cateo arthritis in des essentially the edges of the articular surfaces, and immobilization is caused only by rthritis deformant. In the articular surface there is practically no demonstrable change Other jourts re usually involved simultaneously The cases reported in this article were those of persons under 30 years of ge Chronic arthritis turnally affects those over 35

T berculous arthritis is seldom balateral. There is rather extensive softening of the cancellous bone around the involved joint with greater amount of destruction. A healed tuberculous process usually results to synarthrosis but a th much more altera tion in the joint relations than in the cases described RUDGLIE S RIVER, M D

Jamen, M. On Core Plans and Its Causation. I Read & Josef Surg 0 1

In addition to the gradual flattening of the head. fragmentation, and the development of a broad and horizontal eraphysical line in so-called Legg's or Perthes disease the author draws attention to the changes in the acetabulum. H states that an important mechanical factor in the development of core plans is this flattened socket with an amoristed ischoum varum. As the result of this, most of the body weight is brought directly upon a small area of the head, since the head rests only in the upper nortion f the too large and too flat acets The presence stress causes a shifting of the hnes of stress in the head and neck of the femur t which the head gradually conforms The emphysical plane becomes more horizontal, e parallel with the area against which it acts in the acetabulum It is well known that an increase of pressure may decrease of growth, particularly when the lead t power of growth has been enjectiled

The uthor is included to the behef that convential dislocation of the hip and coxa plans are very closely related. They often occur in the sam person or family One of the main causes for congenital dislocation is the shallow acetabulum, and the reason com nlans so often develops following the reduction of a dislocated hip is the laulty fitting of the head in the acetabulum and the resulting atress changes in the hone

In the treatment the patient should be relieved of weight bearing and given free motion of the loint. ROBERT V FEWERER M D

Jeheneson, S. An Apparently Ritherto Unknown Dureste of the Patalla (Eure baher arechamend anbekannte Erkrankung der Patella) Ziech f erther Chur o xlm 8

The athor describes change t the the of the patella similar to Osgood Schlatter' disease which he has observed in three cases. This condition is found at the ge of puberty and manifested chincally by a distinctly circumscribed tenderness without argue of inflammation. The X-ray shows loosening and dispersion of the bone substance. An injury is usually given as the cause. In one case a change in the bone esembling Osgood-Schlatter's disease was noted also in one tuberouty of the tibus. Treat ment with rest and compresses turnally causes the desappearance f the symptoms in a few weeks

NEUPERT (Z)

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS, ETC.

Campbell C. W Transference of the Creet of the Illum for Flexion Contracture of the Hip South M J 9 3 XYL 280

The author describes very ingenious original operation for the rehef of flexion contracture of the hip He states that flemon contracture of the hip greater than to degrees renders the extremities



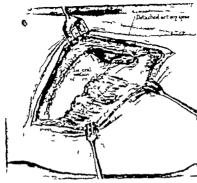


Fig. 3 Read for closure. Glotael nearcles dropped into new position and lascia partially closed over detached antero-superior spane.

practically useless and hen both highs ar affected the individual becomes—quadruped because—all, ing in the upright position is impossible.

The operation described is monofication of and and dishots to, the Southern operation. The stort has used it in more than timity cases. The thort has used it in more than timity cases. The thore the procedure has been coper or the accession of quadrupeds about condution (follow) and the procedure of the procedu

thinks of the crest of the hum 1. the antersuperior game and then downard to the ooter superior fixes and then downard to the ooter superior fixes and the constraint of the contraction of the crest and the crest and salters and deep fixes are non-ed. It has crest and salters removed at the shape operiorism. The outer one fourth of the crest as shaped through 1 one before that and or the anterior 1, thirds, or the entire crest as necessaria and the contract of the contraction of the crest as shaped and the contraction of the crest as shaped and the contraction of the crest as shaped and the contraction of the crest as the contraction of the crest and the conbine about in in diameter as demoded parallel with the crest of the girm.

The raw surious of the transferred creat of the fourm and natires outpoint space fall by gravity, so that there have professes proximate. If this does not reduce feature, the native structures, such as the peons, fascia, or capsule of the hip point may be easily tracted. The surperioual fascia above is stretched to the deep fascia at a point below the All-right of the distribution of

Campbell has had no f tailites and no alarming symptoms in the use of this procedure. He designates it transference of the crest of the times because in from 1 o to three months a massive bony ridge can be found along the line of trackment of the new crest.

To illustrate the t) pe of condition under consideration though practically all hip contractures are amenable t this procedure one case is briefly described and illustrated.

This operation is based upon proper mechanical principles. The removal of the creat is the he at tached outer one fourth and the denudation of the dorman of the illum gas an attachment of the muscles which is more from than if they were meetly such that the contract of the contract Boots more better the contract Boots and the contracture repossible recorring a which might develop if the muscles remained loose in the soft

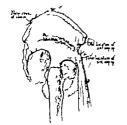


Fig. 4 Schematic drawing shaving condition short one year after operation, with the formation of new creal of the identicand tischiorat of the antero-supersor some

tissues. There is no great interference lith the blood or nerv supply. The attachment is merel transferred to a lover point. This corrects the deformity and in no. a) inhibits physiological muncle section.

One very extreme case of quadraped locomotion in which a remarkably good result as obtained is above a by photographs takes before a dater operation

Paner Lawre, M.D.

Fisher A.G.T. Internal Denautements of the Knee Joint A New Method of Exposure. Lance 1931, cdv 445

One of the most important causes of poor results in the operative treatment of internal derangements of the have points is inadequate exportant with consequent nacomplete sportation. With certains exceptions, most operations for internal drangements of the knee should be of the nature of an exploratory exthusion.

Employing animotomy is inducated by The disheality of differentiating long bodies, lessons of the internal and external sensitiates, hypertrophy of a benowithing fast, or integer, hypertrophy of the Amsonithing fast, or amount of months or year, and the fast foreign bodies in the four the proposal, adding foreign bodies in the four the proposal including an extension of the proposal internations, and conditions the foreign the proposal including an extension of the proposal internations, and the proposal international control and the proposal control and the proposal

j Co-existent pallologic factors. Symmal chondromata or osteochoodromata are not infraquently found associated ith injury of the seni lunar cartilage or the presence of loose body. Hypertrophy of the infrapatellar pad of fat is also.

commonly associated with other internal derange

ments
In the author's opinion transfirmtion and local

removal of a loose body is unscentific unless t is followed by complete exposure

As rule curved or straight lateral incusors over the yout apace do not yield as satisfactory results as the more complet exposure

The transpatellar isomon int the knee joint rice a good capture of practically the entire anterior compartment. In the hands of the surgeous to compartment in the hands of the surgeous constraints of the procedure groung good results, but there are physiological objections it the transpitution requirementality if the most create appearance of bose and criticism as not obtained. These curtifications repair does not constrained. The curtifications required and of most constraints and in the candidate and, if such uncasors heal at all it is by an imperfect between times the preferct position may set p transmiss catton-arthritis causing hards graining ben the pattella is moved, acking

and pain.

The operation described by the sthor is particularly applicable to cases in which the symptoms indicate derangement at the inner side of the joint. If the derangement is at the outer side of the joint, the positions of the incisions in the skin and capsulaare reversed.

The skin is prepared by the procession of sounce and tourniquet is policed. The measion is beginn in the mediane as men boy the uppermost hauts of the suprapatellar pouch, a curved shightly round the saner border of the patell extended along the inner border of the ligamentum patellie and ended below and shightly to the unter side of the tuberde of the t has. The skin and subcutaneous to see are reflected out and A madbae incressor is then made through the fascia covering the quadricepa tendon and extended downward as fur as the taberds of the tibus. The quadriceps tendon the percel rum of the patella, and the beamentem patellar are orded. This fascis is raised and reflected in aid The capsule is then divided 14 m from, and parallel with, the same border of the patella, the incomon being extended upward through the inner fibers of the quadraces tendon and don and along the inner border of the ligumentum patelle evacual membrane is then do ided along the line of the capsular musion and the patella dislocated t the outer aide of the joint. On further flexion of the joint excellent exposure of the estire anterior compartment a obtained. The introduction of the finger is poor technique and th this incision, is unnecessary I some causes the infrapatellar pad of fat and the alar pad ment be cut. There is no objection to moving the joint during the operation, in fact this frequently facilitates the discovery of loose bodies or tags of cartilage

After the completion of the intri arricular stage of the operation the lines is extended the putchas replaced and the synonial scenbrane closed the continuous suiture of fine cutrait. The incressor is

the air pad is carefully autored. If the pad above published the page it is recovered. The cappule is faced with mentioned entire f stout threat the page is the page in the page is to the page of the page is the page in the page is to the page of the page is the page is the page is the page of the page is not removed until the dressings and bandgar are applied.

The after treatment counsts in supporting the him in slight fermon on pilos. No spinit is used. The skin natures are removed on the seventh day when active and passive movements and message are festituted. The patient is up in a chair daily and at the end of the second seek begins to real and at the end of the second seek begins to real the second of the second seek begins to real the end of the fourth week the patient is shie to wait almost pormulty D unex I Inversex, M to

Steindler A. The Treatment of the Fiell Ankle Parastregaloid Arthrodesia J Bene & Jessi Surg 9 5, 284

The operation presented consists in the complete dendsistion of circuitage from the satingality and all its arteniations. This causes an arthrodesis: f the satingalo that, satingalo ecaphoid, and satingalo-calcancel joints. A plaster cast is then applied it the himb from the toes to show the slightly fixed kines for three to five months. Toe drop of bout zo derrees in allowed.

The operation is indicated especially in cases of flail salk in a shirt there is an equinus, equinorarius, or equinovalgus but of much deformity. The presence of the extensor of this knee or part if the flexion of the knees is (great importance but trong glutet might be sufficient for good knee cition feet the cognition.

Faulty ahnement of the knee must be taken cure f by an additional osteotomy f the tibus

The ankylous obtained by this method is ther ough and solid, and in the majority of cases the X-ray show complet (uson of the points. In cases of extrem columnocause in a both backward dis-

of extrem calcansocavus in which backward dis placement i the foot is f advantage, the Whitmin astragalictomy is preferable. The thor renew thirty aix cases treated by

arthrodesis Twenty on of the patients have been examined year or more after the operation. Of these eighteen walk with the foot in the correct position and without braces.

Steindler feels justified in recommending the operation as especially suited for drop foot or drop dangle foot Rosser V Fuerrot M D

De Mata, T. R. Arthrodesis of the Ankle (Sobre strodesis del tobillo). Res seject de crezg. 922 494

The thor techniqu for arithrodens of the inkle is combination of resection of the articular cardiags and the planing of transcences bone graft of the Lezer type. In the first stage of the operation large knother arthrotomy is don't committee the combination of the semicircular meason including the external malleoline.



The placing of the bone dowel

and extending 1 the dorsal part f the foot in the median line. The external lateral and relaxaned ligaments are actioned and the personnel tendons are freed by disaction at their upper end the external tendons of the toes are carefully freed to wed supung them and to pervent reptime I the dorsal essels of th foot. The font is then opened and the foot held inward so as fully to expose the ritcular surfaces. All of the investing cartilage is then removed condens that the saturation role.

then removed, including that I the astraighar pole. The plantar range. The operation consults of a methic plantar inceion which is carried it the lone and perforition of the calcadean and straights by an electrically driven drill directed so that it will perforate the third. The perforation I the third can be made either through the calcaneum and astralague or directly by inxiting the floor. The bone doned is taken from the third and dynated carefully it the bone runnel.

Finally the dutal ends of the peroneal tendons are satured to the personteum. I the external malle olton and may not may not be sutured to its proximal ends. The operation is concluded by enlarging the prorumal ends by B yet tenoplasty and suturing the distal ends t the external surface of the cal cancium.

The operation is applicable especially to cases of infantile paralysis. In the crue treated in the manner by the author the bone graft had of been resorbed ear after the operation. W. A. Bernman

FRACTURES AND DISLOCATIONS

Berard, L. Bone Grafts (Greffes orecres) Brazelles

Bérard deals with thirty eight cases of bone grafting done t the surgical clime of the University f Lyons high he has been able to follow for long

period. I belar grafts were usually, employed at furt, but recordly the graft have been taken from the tibbs and the instrumentation of Alb. has been adopted. I depth the prece of bone removed extended to the medalizary canal. The personteum was left in pix or in Bernel opinions the presence or absence of the personteum does, not seem to havsay influence town the evolution of the emi-

Osteoperiosteal grafts of the Olher Delagrance; type has been used only t obliterate skull defect in cases of permitting pseudarthroses! one of the extrematies, and cases of delayed consolidation Homografts ere employed in four cases and grafts of dead lemma hoose in Sec.

The graits are placed as follows cranium, for spunicolumn, five bunnerus to radros, tin (expit a togratis and to bomogratis) sina, three (t sutograits and one homografi) tible, t ch and (mut two.

In 1 mt; 6: of the thirt edght cases the entry graft became consolidated 1 mt creas small fragments are eliminated became of supportation in the neighboring soft parts, but the final result is not definitely compromised 1 seven cases there was let elimination of the graft. In three of these the precidently one presented, but in the others consolitation was layouted by the temporary presence of

the graft and became effect we after one or two years. To obtain good result in the effooc grafts, the contact with the host bone must be as if we are the grafts are done-tailed in it the needlature canal, placed according a label of the needlature canal placed according to the needlature canal placed as a label of the needlature canal placed as when we have a label of the needlature canal placed as when the latel placed as a label of the needlature canal placed as a label of the needlature canal placed as a label of the needlature canal placed as label of the needlature canal placed as the needlature canal pla

"The but results are obtained it stopmons grifs taken from the boas it be reparred or some other part of the alceleon. Homograeous grafts are less well tolerated more cash cumnated by safet too, and more scalls reorbed. It poean that they seer only too or remineral matter and as framework for the reput of the boos boar by the stopmons. The framework for the reput of the boos boar by the dead book framework for the reput of the boos for the framework for the reput of the boos for the first framework for the results are not present the same a true of grafts and and are the form of the form

Ingreents The same is true or grain to death and in the cases studed the grafts examined micro scopecally some time. Her the operation had the appearance of hing bone.

R. A. Bary

Bury L. The Technique of the Operative Reduction of Old Largettons of the Shortider (Technique de la repositore aerghant dans les hautions anciences de l'épasie) J de chr. 9 3 22145

Basy has devised new technique for the operati reduction of old dialocations of the shoulder which he claims is more simple than procedures en-

Free access t the lurated head and the glenoid cavity is obtained by make greeted incisson along the glenoid ca tay and a transverse measure forming a the first mession an inverted L or T. Temporary reserving of the coracoid process is then done t. facilitat exploration of the luxited

temporary rescuess of the constood process is then done it facilitat exploration of the functed bead and to throw enough light on the anilary perrors and vessels so that rajury to those structures, most serious complication may be a nider

Resection of the subscapular mosele, permits simulations reduction of the hastion and opening of the articulation for exploration of it cavity. The retrivered subscapular muscle as the proaderl obstacle 1 the replacement of the leasted lead. The distinction of the subscapular muscle permits wide opening of the joint and give as a sen of the old and near articular cavity to that the reconstruction of an aniento explaint assection can be accrossipalsed. The exaptal himserial articulation is exceedinged to their permits of the subscriptular to the standard of the permits of the subscriptular to the standard templation in the standard templation in the standard templation.

Hannecart, A. Wire Circling of the Olecranon by New Method (Cerclage de l'olecranon par une technique una cile). Arch franca-leiger a che

0 3 xxs) 99
Hannetart's method of osteosynthesis of the

olectation makes use of the coronoid process temport the bronze aluminum are which encurdes the olectation and passes through the readon of the brachial traceps.

Hannecart but used this method in two cases.

One as evec of subtraction of the clibra and a fracture of the pper stream; of the disa is both cases the method as eas 1 carry set and entirel satisfactors. It disappears () that tea be used in II cases () that the couptrains is if they in multiple in my cill asserted and munitained (i) that the metable method is not to true the loners and therefore them in the metable that the metable couple is not true the loners and therefore them in the metable that the metable is not true the loners and therefore them is not the metable that the metable that the metable is not the metable that the metable that the metable is not the metable in the metable is not the metable in the metable is not the metable in the metable in the metable is not the metable in the metable in the metable is not the metable in the me

Tonos, k. B. Fracture-Dislocations of the Carpal Benne Surg Cir. H. im. 024, 86, 74

The X ray has great! increased ser knowledge of the right and machinism of three common injuries via fra ture of the scaphoid of the rist, ternor disforation of the semilians and auterior

dislocation of the scaulinnar—th fracture of the scaphost—The thor reports four cases buck iffusirat the lat result of carpal—pures

Case as that of a commany years of age to was struck by an automobile. The force of the full was received in the right prilm, ith the wrist and ethors fully extended. Examinations showed algoith a voices cliw brind and considerable thicken ing of the wrist. A hard prominence was felt under the flexor tendons distal to the forearm bones and another on the downm of the wrist between the base of the third metacarpal bone and the lower end

of the radius

A roentgenogram revealed an anterior dislocation of the semiduar and fracture of the navicular. The semiduar and the prunmal fragment of the navicular were pushed forward in distortion tenorty so degrees by the capitat and other carpal bases.

To days after the mury the dislocation was reduced by pulling the hand down in the line i the forearm, and with continued traction the wint was hyperextended Spints or even until the fourth day when they were removed daily for physiotherapy. On the thirteenth day the spinist were discarded. Ten months after the injury the

were discurred

Case was case of anterior dislocation of the semilunar and the proximal fragment of the navi ular amounted oth median nerve money paresis, angesthesia and sovere causalgus. This case was not treated for five weeks after the injury as the condition had not been diagnosed before the uthor was consulted. The lunate and proximal fragment of the navicular were exceed through incresion. The median nerve showed moderate hyperamus only Four weeks after the operation the sensory loss the paley f the small muscles of the hand, and the vasomotor disturbances were unchanged The wort had palmar flexion 1 43 degrees and ulnur flexion ! degrees, b t no vien soon or radial flexion

A second operation was therefore performed as it was thought the retirection f radial and dorsal feation was due to the presence of the dutal fragment of the navicular. One yes after the second operation no further improvement was noted. The hand remained work in dishowed considerable must

cular atrophy

Case years case of antenor dialocation of the provimal fragment. I the fractured navicular with posterior dialocation of the lower end of the ulns and compression of the median nerve. Closed reduction cromplished on the second day was followed by an excellent functional result.

Case 4 as makerapol fracture dislocation per imperiodinate anterior dislocation 6 (the hand a th fracture of the navonals frammation reveiled itero posterior thickening f the rat and bon prominences across to olar and docal sepecta. The bases of the metacapal boots — red duplaced forward. Closed reduction (feer ten days resulted in good function.

Dhalluin, A. Traumatic Luxations of the Spine (Des luxations traumatiques d. rachis). Archifesses leigns de kir. 9 3 xxv. 97

Dhallum reports three cases of traumatic 1 cation of the space. The first was that of soman 47 cars of ge ho had been struck by street car.

The accident was followed by complete paralysis of the lower limb and retention of urine. The X-ray showed luxation if the first lumbar vertebra back ward and to the right of the seco d, and fracture

f the right transverse processes of the third and fourth lumber vertebre. The terminal medullary cone of the nerves of the canda equina were destroyed. Such a case is exceptional. Under treat ment by continuous extension, sensati and spon taneous urnantion slowly returned, b t the patient is still under treatme. I after several mouth

is sum momes treasment acres several months. The second case was a forward fusiant in of the fourth cervical vertebra with quadriplega in a mina who was burt in a football game, his chin striking spainst the sterroum in forced flexion. After the seculent the patient was unable to move has bead or limbs and uffered retention of unne. The Y-ray showed that the fourth vertebra had passed in front of the fifth the upper part of the cervical column being pushed if ward, and that the lower articular process. I the furth had passed in front of the upper process of the fifth Reduction was effected under chloroform anesthesia. Three weeks later the patient was be to walk, and one month and half

ater was in fairly good conditio

The third case was that of man who fell while currong beary weight on his shoulders, the weight currong forced flexo if the cervical column and forcing the china against the steranum. The codent was followed by total paralysis of the limbs, retention of unine, and prinspins. Y any examination showed displacement. I the fifth cervical vertebra were widely separated. Medullary lessors were widely separated. Medullary lessors were marked. Refution was easily effected but few days later the patient fell int. come and died. At topsy the cord was found licerated at the site of

the luratio and completely sectioned between the fifth and sixth ertebra: Dhallium discusses the mechanism of spinal luxa-

to and incl des in his article several roentgenograms of his case II A Barve

ORTHOPEDICS IN GENERAL

Constantine M and Moffat, B. W Managing Orthopoduc Cases T and Yurse & Heep Rev 0 3, lxx 405

Stocknetta sackets are used for body casts, and to bala stocknett is employed for casts of the extremites. Profument bones and kyphones are protected from pressure by gray felt about 1/4 in thick. The most cceptable padding is cotton a dding about 6 in syde.

Denial plaster usually ha dens quickly but most other plasters require at least handful of sait t a bann of water. The plaster rolls are immersed and handed t the doctor after they have stopped bubbling.

The finished cast should be exposed t the sir for

twenty four hours and the patient turned to facilit t drying. A board should be placed under the mattress to prevent sagging and consequent breaking of the plaster. Bradford frames sad the inneand patient materially after the application of space.

Inference with decolation due 1 pressure of the case or operativ traums must be ruleved. The lamb should be elevated and, if necessary a vertical metion about the made in the cast or the enture cast split. If neglected, constriction may cause pressure sores, gangere or Volumana paralysis pressure sores, gangere or Volumana paralysis pressure sores are almost una oldable. B may pain under the east of the door or a certain area

will aid in the detection of pressure sores.

Operative isomions covered by pluster should be observed by cutting window in the cut II had dressings are t be applied, the stockmette should be pulled through the window and the edges shell lacked, the area their being made waterproof

Patients 1 a long space may be made more confortable in high lowler position. Elevation of a leg recently operated upon relieves congestion and promotics bealing. The akin may be rubbed and allowing powder distributed over others are inacreasble areas by passing 1 and fro bandage placed under the cast with its ends projecting.

T bular privey can be extended from wader body cast and refered over it and the upper edge seved it the lower. Suspending Infants and chil dren it hiscontisence by tapes in drubber covered pillow previous them from sooking the custs. The casts are shellacked when dry so that they can be waked clean when necessary. Rough edges should

be 1 mmed

For the removal of cast the nume should provide plaste knife, plaster sherin, and acetic and or hydrogen perionde 1 soften the plaster

Done II Levenus VD

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Element L.: Ansurism of the Common Illac Arter): Gradual Occination by Lightion with Free Graft of Muscle. Surg Clin N Am 9 3 14,68

Remeasing the ligations of the like artery in the century from Gibson's first operation in \$8\$ to Hakerda report in 9. Eleosser found that in total of nursty-t o highties of the common that artery for ancurson there was only one fatality (Frandelsburg's case). The rainty of ancurson it his location is evident from the report of Lock and Ras on a con tropical in which 3 is accurated of the thorax and abdomen were found but none affecting the common thic arteries.

The author reports the case of a man of 60 years the abstory of severe scarlet fever and chronic cough with bloody expectoration. The diagnosis of chronic polimonary inherculous was confirmed by the demonstration of tubercle hacilli in the sputum. The history was negative for loci, and

repeated Wassermann tests are negative I of 8 be patient expressered a god nest stack of 0.8 the patient expressered as the fact stack of severe pain in the left groun which was associated with a patient of the patient of the month was followed by majorements, but subsequently a paniless welling of the left leg developed. This also gradually due appeared and the patient remained in fair health

for three years

of the state of severe past in the back was defined by pupish discoloration of the persuent spreading 1 the hips and grown Simultaneously stelling appeared in the lower abdones in association with unnary frequency steeling of both keps and pressure in the return. Physical examination reveiled synthic pressure of 1,26 mm Hg The temperature and pulse were normal. A large polisating expansive mass filled the lower abdones and extraded upward to settlin 3 m. I the umbilitation of the state of the s

At operation anesthesis was induced the atrons order and local cover-cuit willfustion. An increasion was made in the left flunk and the pentoneum pushed forward. The left lake artery and ven appeared normal. The tensor was found t between the contract and t extend repeard from the pelus to the right ladery. The first increase was then closed and a section disade on the right side. This was begun an above Propart's beginnent and cateroided upward and backward toward the cortain activation.

arch. The ancursants are was identified. Compression I the pecile to the level of the right kidney obliterated the pulse in the sac. A muscle factor part 4 an long by 1 in thack was taken from the external oblique and swung around the artery Catgut statictes we placed to hold the graft in place, and with second catgut highture passed around the slain (this formed the pulse in the sac was completely obliterated. The wound was then closed. The operation consumed four hours.

The postoperature course was stormy. Pulsation returned t the aneuman Thirty bours after the operation the patient went into shock. To blood transfusions were followed by gradual improvement in the pulse and general condution. The keps were warm but showed shipht ordems. No pulsation was felt in the night temoral, the popilitied, the third or

the domain pedus artenes

The ancunsumal sac still remains palpible but is somewhat smaller. Pulsation is still demonstrable within the tumor mass. Both legs are ordernatous, but the pain and the unnary directal disconfort have largely disappeared. John Wivers M.D.

Kolin, L. Th Anatomy Clinical Aspecta, and Treatment of Ansuriam of the Superior Mesen teric Artary (Zar Kenntins der Asatome, Kimik and Therspa des Ansurysma der Art mes sup) Arth J. blis Chr. 9, 3, exam 684

Aneumans of the superior mesenteric artery are seen very seldom. The case reported in this article was that of man 20 years old who as suffering from sudocarditis. Within period of three months

pulpable pulsating tumor developed in the epi gather region in association with severe attacks of pain which were followed by the passage of bloody tools. A very severe attack of pain led to lipated only which revealed at the base of the meantary as ancurrum the size of an egg, which was covered by pertination and embedded in indirated tissue active the proposed of the period meantaries artery was recommended to the period meantaries are found in the intesting. Death occurred it the end of seventeen hours.

A topy showed a dark red, somewhat distended missims and Bood in the stomach and intestine but no trophic disturbances. Dissection of the sorta showed that the vessel affected by the ancursum was the superior measurine artery. The ligiture as 3 cm from the aorta. The ancursum itself was almost filled with congulated blood.

The lew cases so far reported in the hierature and the anatomy of the superior mesentient artery and is branches are reviewed. The author comes to the conclusion that hyation of the treat, will not endanger the nutrition of the intestine if the closure

of the human occurs gradually so that a sufficient confared architon can develope, if the essela, particularly the pacerealited colored artery (the connecting vessel bet een the separion menentene and the hepatic arteries) can become vacanously dilated. The descriptions of the ancurum in Keina case as caused b mycotic embolius due to the endocarditus. To preser the nutrition of the intertine it is necessary in extrapting the congruent, to light as near the Intertinal will as

possible in that the other branches of the superior more term artrey particularly the Jennal stretca, will be sparred. Ligation of the superior meanterier run alone nearly also y results in a fartly intestinal infarction. The alances of unfavorable results following lighton of the year on the utbox case as a constant of the properties of the conpertional leases that the venous return was reperted by the surrounding industed retuered possible by the didnted gastro repolace, and alleron meantments with the proposed of the sufferior meantment with the surrounding the surcincian surrounding the surrounding surrounding the surformer surrounding the surrounding surrounding the surformer surrounding the surrounding surrounding surrounding surformer surrounding su

Scheenbauer L., and Gold, E. Can Drainage T bee Gause Erosiou of Blood Vessele? (Koenzen Drainagrobin Blutgefaesse arrecheren) Arch f Bl. Clar 1913 CXDL 43

To determine bother a primary injury t the blood vessel is necessary for the occurrence of erosion homorrhage or whether infection alone is sufficient. the athors introduced rubber t bes close to the blood casels of ammals and examined the resulting changes macroscopically ail microscopically. In no case did they succeed in causing an erosion harmor rhage evidently because the rterni wall was particularly resistant t the bacteria used. They concluded that if the ound is kept aseptic ad the venels re sound, there is no danger of erosion. The blood each abox no structural changes except proliferation of the intime and sicring of the adventitia. For the occurrence of amnorthage there must be decreased resistance of the ersel wall such as a caused by primary injury to the cased or infectious sectors Barry ra (Z)

BLOOD AND TRANSFUSION

Bauer K. H. The Inhected and Constitutional Pathology of Harmophills (Zur Verribusps and Loostitutionispathologic der Harmophile) Destacle Eleit f Chr. 1923, Chr. 190

This extends ork is based on the 33 homophilac families so far known. The empirical law of hereday is as follow.

I hemophika the wass are receptoral the makes are the bleeders, but do not transaut the condition, while the females, who transaut the condition, who transaut the condition do not bleed. The inflow discusses the noos attempts which have been made to explain this is in the opinion the hemophika tractor is coupled with the extra factor and as a recense.

The sine of analyzing the inheritability of such a condition as himsophilia her in the possibility of demonstrating (i) single definite pasks of transsuration for man, () transmission according to start biological la (s) the localization of the transacting factor in certain chromosomer and (s) are nection in another factor of transmission, the sirfactor) Joreov er a knowledge of the formal genome of the properties of the constraint of the starter properties of the constraint of the starter properties of the constraint of the starter properties of th

According to the theory of the boology of heredst all transmissible qualities are found, frees the fact ancients division in the chromosome construents of all other cells of the organism, each body cell in british the entire original chromosome combantion. Accordingly, the hemophilia factor is present in every cell of the body.

Dyke, S. C., Ozon, D. P. H. and Budge G. H.: On the Inheritance of the Specific iso-Aughstrankie Substances of Harman Rad Ceth, With Nature on the Possible Existence of Lethal Factor Proc. Rev. Soc. Uni. Load. og 3. xxi, Set. Path. 1.

From observation made on §54 persons constitute conclusion that the properties A and B can sever poear in the offspring—thou has ing been present in at least one of the part is, and that when to herited, these properties appear in the offspring in accordance in the reconsuled mendelum law.

The observations forming the bases of this article were made upon material provided by the materialty and of St. Thomas Hospital With the cooperation of the nurseng staff blood as collected from the unbluical cords of infants. I both not one of for accretioning the group of the chird. Corpuscies for the same purpose were obtained from the mothers as the lay in the rids, and from the fathers whe they mitted the hospital 1 thm. y observations or conducted groun both.

parents and offsprag in mase capit cases. The blood for accertaining the group of the islants as collected in a test take and allowed to the The serim as then protected off and the corposades are subsed three times in a per cert sodium circle soletion in commissione. Blood was obtained from the parents by finger practises, the drop being collected in similar circles obstices. The serims of the prients as not tested the group being electronical by the received and the computes above.

sering of the primits—as not tested, the group being determined by the reaction of the corpusies alone. The grouping tests—ere performed with sheld snodshections in the manne, previously described by Dyke.

I considering the group t high the offspring of an t parents are belong it need to remote-bred that t is not the group high is abentic. The dominants I and B and the receiver a and a re the interest before of these than the based of the consideration of the state of the consideration of the state.

or beence of these that the blood group depends So far as groups alone are concerned ten t per si mating are possible but this all these t per the

one exception there are many possibilities

The a thors conclusions are as follow

I The agglutinable properties A and B are demonstrable in the blood of the newborn In their genetic behavior these properties 4

and B are dominants 3 In their genetic behavio the gglutining

and are recessives

4 The properties 4 and B cannot appear in the blood of the fispring without having been present

in the blood of the parents With regard to the possible existence of lethal f ctor the authors state that the data t hand show that in all races, whatever the numbers of persons belonging to Groups II and III those belonging t Group I are always the least umerous. It would seem that there is some f ctor which inhibits the ready production of Group I persons while there as no such inhibitio in the case of the other grouns A suggestion as t the nature of this inhibiting f ctor is supplied by the know facts in regard to the lethal effect perted in certain instances by the doubling of the dominant

There re two possibilities (1) That Group I incl des only persons of this last formula, 4B as and () that the three other formula may be pres

t but the gametes produced by them bearing tw dominants re not capable of fruitful union If the second assumption is correct person of the

formula AB AB will be completely sterile while persons of the form be 4B B and AB Ab will produce only half their prope number of fruitful

Tither assumption ould count for relative diminution of Group I persons as compared with Group IV persons. Which theory is correct can be ascertained only by series of observations of unions in ol ing Group I persons and such a sense. because of the runty of Group I would be difficult t collect CARL R STEENET M D

The I travital Course of Harmolysis. Jantzen W with Discussion of Blood Transfusion and the Development of Shock from Transfusion (Der ratravitale Verland der Harmolyse auglesch ein Beitrag zur Bluttramfumon und mer Fatgebung des l'anslamentechocks) Al Behasche ц, 29

Immedit shock is t be expected only if the blood of the recipient is highly bemolytic for the stances destruction of the erythrocytes may follow remediately. If the scrum is onl. weakly hemolytic and the blood grouping poorly defined harmolysis will occur it often too lat for beepuires. test (trial injection of o cm and observation of the reaction for ten min test t be figue

When the serum of the blood injected destroys the enthrocites f the recipient hamol as does

not occur before an bour. The chulcal pacture is determined by the strength of the hemolytic substances Depending upon this there m y be shock with hemoglobinums or merely a variation in tem perature possibly associated with icterus

Because of the difficulty of recognizing borderine cases, the microscopic agglutination test will not exclud unsuitable donors a th certainty. The best method of preventing shock from translusion of the patient condition will permit the postponement of the transfusion for t o or three hours. is the test tube examination for hemolysis

erstein, D. M. Intraperitonesi Transfusson with Citrated Blood. A Clinical Study Am J. Siperetein, D. M Dis Child 19 3 XXV 20

The author reports five cases of transfusion of citrated blood int the peritoneal cavity of infants The favorable results were similar to those f llowing transfumo by other methods to unfavorable result were noted

In one patient who died three day after the in section of no c cm int the peritoneal cavity so cm of blood were still present, but there were no clots or adhenous SCHOOL L LOCK M D

Ten Broeck, C., and Bauer J. H. Studies on th Relation of Tetanus Bacilli in the Digestive Tract to Tetamus Antitoxin in the Blood. J Exper Vel 0 3 XXXVII, 479

The sera of t enty-six persons with tetapus bacilly in the digestive tract were found to contain appreci-

able amounts of antitoxin The sera of thirty persons in whose stools no tetanus lik organisms were discovered were, with

t o exceptions free from tetanus a titoxin Although the authors have been unable courately t measure the nutoun content f these human

carners of tetanus bacilla they found that cm of serum neutralises ten times the minimum lethal dose of t un and t is evident that the carners ha acquired an ctive imm nits due t the bacili the intestinal tract

These results definitely prove that tetanus bucilli

grow in the intestinal tract of man Many persons who has no tetanus bacilli in their

intestinal tracts and whose serum is free from antitom show ggdutinins t tetanus bacilli It probable that such persons ha e been carriers of the bucilli in the past nd that the ggd tining ha e persisted longer than the antitoxins. It seems probble therefore that they re potentially immune t tetanus

If the presence of tetanus bacilli ca be established in the digests tract of man ha transmission which might be usef ! in regions where teta us infections are common

SANITE LAW 31 D

PHYSICO-CHEMICAL METHODS IN SURGERY

ROBITGENOLOGY

Iry A. C., Orndoff B. H., Jacoby A and Whitlew J. E. Studies of the Effect of the X-Rays on Glaudular Activity. J. Rainel. 19 3. 69

The fart part of this stracks in given over to a special consideration of the beological proceeds involved when cell is satisful you by some external influence. A distinction is not between limitation and attinuistion. In view of the know action of the rootigen rays, the authors are included too kepticism reparding the accuracy of the phrase timesteries action of the rootigen ray. "A cuttorier extens of the phrase timester action of the rooting ray." A cuttorier extens of the biterature on the subject is runniqued as follows:

With the exception of the grammal epithelium of of the groads, plandair epithelium as quite resistant t the effects of the roestigen rays. The hierature presents worthy eridence that the glandair activity of some of the grands can be decreased. The dosage of contigen rays regulared in sectionation has not been accurately determined. As it the stimulation of glandairs activity by small dose of roestigen rays, the literature suggests the possibility of such stimulation but it has not yet been demon

strated in a unife instance. The second part of the article deals with the expeniential work done t obtain additional instance. The submanding plants of does we treathered for variable periods under different continues and the results carefully included by continues. The expensions are disastical as indicated the article of the results are the continues of the

In one experiments I was impossible to bemonstrate the small down of the receipter reptance of the receipter of the receipter represent the entire that the receipt receipt rerays as sout experiments caused an immediat dispersion of the secretary accuracy of the gland which may be explained by an altered blood fewthrough the gland

In dogs with a second and the second and the second and a second a second and a sec

One month after the exposure, the gland manfested depression t all stimule sized. An alteration in the composition of the salars occurred. To mouths after the exposures the secretion remained markedly reduced in quantity but its composition returned to normal. The depression was not due to any general systemic effect of the rucation ray extoners.

Firstels of the duct of the gland did not after to secretory activity

The minimum dose required to produce decreases

of the secretory activity of the sebmanilary gland was an follows 11 k max to ma 5 cm foral slit distance portal of entry 28 cm square near slummanm filter time forty minutes

The submanilary gland partially suppressed with atropia was notiber stimulated nor sensitized by small does of treatgen rava

The memedian effect of large doses of rountges rays on the histology of the submanillary gland was practically full

The delayed histologic changes were quit marked At alteen days the gland showed the following changes (1) infiltration of round cells about the secretory ducts and blood essels and m the strong of the gland () reduction in the amount of stored mucus in the cells of the alveoli with evidences of degeneration of some of the gland cells and (1) probleration of fibroblests in the stroms of the gland. A harmorrhages or sums of previous hemorrhage were present. At the end of t. o months the glands were smaller and firmer than those of the normal control, there was less round cell infiltration than in the glands studied at the end of fifteen days, the fibrors theme stroms as markedly increased in amount and the cells of the alveoli ere lorded with stored mucus

Thee delayed effects of the rosagem my on the hastology of the gland correspond t the changes is the physology of the gland for example the reduction of the vaccastly of total solids and the aquantity of the secretion during the first anoth and the return to normal the composition of the secrtion with a premanent reduction in quantity

Anothe Burreys VD

Phism Deep X Ray Therapy And Raini & Electrology 19 3 x11 yell

The uthor describes rectigen therapy as practiced at heimagen by Wast and Setta to he brought it out of the chose of experimental Hermita it the base of H founded creat research for first requirement is the contraction of power ful high oldage paparatus of the second the servet measurement of the quantity of quality of the rays. Both of these requirements has a been met and t is now possible to administer predetermined and consistent biological doses

A brief explusation of the physics and domnetty of the routigen rays is given. Since only hard rays can be used for deep therapy the soft once are fishered out by tine, and alumnum filters. The influence I scattered or secondary rays aronny in the timese perceitted in an important factor. The percentage depth dose, i.e., the relation of the does in the depths to the dose on the surface, depends on three factors, dispersion alsorphon, and scattering.

The bological requirement for the treatment of proplasms is the group of a destructive done with our injuring the adjacent healthy tissue. This is made possible by the variable susceptibility of different cells. To obtain a more exact solution of this problem it was necessary to ascertain the exactitude the quantity of rocation ray which is part sufficient it destroy turnor and no more than the normal tasses and the size of the control tasted to be a second of the control tasted to be a second of the control tasted to the control tasted tasted to the control tasted tasted tasted to the control tasted tasted

Certain measurements on the patient body are next required. Wints determined fixed bological unit dose—the so called unit skin dose or crythema dose that, eight days after irradiation Drodoces. slight reddening and four weeks after irradiation a tender but clearly visible brow dose as fixed by certain number finin tes of exposure with certain populaties running under certain conditions and certain tube was tandard uzed as no. It causes discharge of the contonuants meter in certain umber of seconds Thus there calibration of the sontoquantumeter in relation to the background effect, and the background effect of other tubes can be determined by means of the The unit skin dose being iontoquantimeter standardized as no per cent, it was ascertained for instance, that the cancer destroying dose is about go to 1 per cent, the sarcoma dose to to So

per cent, the sterilization dose 15 per cent of The Estinger technique is based directly spon the cased data obtained. Its practical application is consistent to the sterilization in connection with certain gracelogical diseases and in the treatment of terms exciser; we described at some length. The necessity for many cross fire to obtain the required depth date is brought out. When this is not fessible, depth dates about the object of the control of depth described and the control of the conposition of the diagram associated and precipitation of the diagram associated in called to the need for safequat preliminary and proper after care of the patient.

Good results can be obtained all kinds of mahgnant growths. Whatever the arm or to the question whether operable cancers abould be treated

a th the reenigen rays alone or should be operated upon and treated only reprohibatically with the reenigen rays, there is no doubt that in the development of deep V ray therapy a great shares has been made in the fight against cancer. The length of time it has been in use, however is still too short to determine whether this new branch of treatment will oltimately replace surgery entirely. The results so far obtained in cases of mishmant growth are at least as good as those of surgery and a certain percentage of inoperable cases of milipmant growths can be cured by the recently ray.

As succomata are especially solitable for roentgen treatme 1 amputation should no longer be done because of this conductor. Still better are the results in hymphosarrooms and hymphogramions. In the treatment of myomats and chiracteric diseases the results obtained are excellent and the method is all and painless. Therefore operation should not be performed in cases of myoma unless the tumor affects the repon. If the bladder and subsequently cueses further complications, unless at two necrous and infection, or unless it is to large that it threatens the function of the bladder or rectum.

In the last few years to the Gynecological Hospital in Erlangen it has been found that in cases of chronic inflammatory tumors of the adness the suppression of the function of the ovaries for two or three years by means f su table dose of roent gen rays (a little less than the full castration dose) - as suggested by Wintz - excellent results may be obtained. Other diseases which can be successfully treated with the roentgen rave are tuberculous of glands, tuberculous of the peritoneum, and tuberculous f the rounts, especially small joints. In skin diseases which can be suc censfully treated wih the roenteen rays it has been found that the use f hard penetrating rays gives better results than the use of soft ray results have been obtained in advanced cases of actinomycous. The X ray has been found of value also t suppress the high hyperfunction or to stimulate hyperfunction of glands of internal secretion. In the treatment of Basedow' disease stumulate for instance, two thirds of the unit skin dose to the thyroid and the thymns gives excellent results as regards almost all the typical symptoms

ADOLPH HARTUNG M D

Hirsch, E. F., and Petersen, A. J. The Blood with Deep Roemigen Ray Therapy; Hydrogen Ion Goncentration, Alkali Reserve, Sugar and Non-Protein Nitrogen. J. Am. H. Am. 9 5, inx, 505

As variations in the amount of the non-protein interper constituents and other minimizers the blood may occu with roentgen ray treatment the blood may occu with ventigen ray treatment the suthorn made chemical study of the blood of cer tam patients treated in the routine way with high rollings roentgen rays in the hope of demonstrating changes which might explain roentgen my suchoesa. The urea intropen, the total non-protein mitorgen, the unc cld, the creating, and the ayear in the blood were determined according to the Fohn and 14 method, the carbon-dioxide combining power of the blood pirens by the Vs Siyke method, and the by drogen son concentration of the whole defibernated blood by the gas chain method Blood as taken from the arm can before treatment one to hours after treatment, and gal fter about twenty-four bours. The blood samples were drawn int so t sac cm. defibrinating tubes containing glass beads, in such a w y that all of the air was displaced and the blood in the closed tubes was defibrinated by shaking. The hydrogen ion deter minations were made in a McClendon electrode vessel, the transfer of blood into the casel being completed athout exposure to sur-

The results in eight of the fourteen cases studied are given ; a table. The results in the others were

enentially the same

These examinations demonstrat d no striking or connetent alteration in the uses introgen, the total non protein astrogen, the unc acid, the creating, or the suga concentration in the blood following treatment with the roestgen ray. They showed, however disturbance of the acid base equilibrium. which a manifested immediat Is after treatment by an increase in the hydrogen ion concentration and sometimes by a skight lowering of the alkali reserve After I enty-four hours these relationship are reversed, the hydrogen ion concentration being decreased and the alkali reserve increased. The latter observation agrees with the results obtained by Hussey in rabbits. The mechanism concerned is

probably like that of other physiological reactions which the acid beer equilibrium of the body is disturbed and transent andons is followed by n over compensating all als response (all alous) the authors oremon the cause of the ackness follow the coentree-ray treatment in y be this disturbance of the scal base combining or perhaps some as yet unknown factors associated with it

ADDRESS DURING M D

MUTGLE

Turner, D The Use of Radium in the Treatment of Discuss Best U J o p. 1, 444 bich radium has

The proposal conditions in

been found beneficial at the Femburgh Royal Infirmary are mabguant discuse, exopathalmic gotter splenomedullary leuk emma, Hodgkin discuse kelords, and nevo The ther rites a case of mal ma t duesso confirmed by operation and microscopic study a such has remained cured for more than seven years. The patient as a oman 40 years of age s he had had sercome for four years and had been subjected t four operations. She was admitted t the Infirmary by Miles on July 5, 915 As Miles did not consider the case surgeril, dose of 4, 80 mem has of radium was given by external and internal polication, and in November, o 5 the do-e was repeated externally only. The growth

dimmlebed markedly. At the time the national entered the hospital, it was large nodular mass adherent t the left maxilla, projecting int the suboristal region, and interfering ith vision, hereas in F breast; it was movable and considerably smaller The puthologic diagnous made following its removal as spladle cell sarrouss. After the speration prophylictic dose of 4, so mgm hrs of rachum was given I January 9 3, the ttenchog physician wrot that the patient as well and without my trace of recurrence

Of mahamant affections, rudent ulcer contheboms, lymphotarcoma, spindle-cell sarcoma, makenant disease of the cervix, and sarcoms of the name near eages, and of non-muligrant conditions, exophthilmic gotter early keloids and tertain news are very amenable t radium treatment and sometimes may be actually cured by t Conditions hich can be ameliorated but rarely cured include carrinoms.

I mphadenous, and spleaomedul ry leukarum Small rodent wicers not affecting the mucous mem brane or bone are easily cured ath from 500 t 800 mem has of radium altered through 15 mm of all er Those located where the alm nase som the cheeks, and those of or near the ear are refractory Small enathebomata of the lip are very menable t treatment I vol ement of the floor of the mouth. the tourse, or the f area is difficult t benefit

materially ith radium

Lymphosarcomate are the most smorptible to radium of all per growths, but while they disappear randly they tend to recur and form metastascs In malurn t disease of the external grantals the progress of radium treatment is usually unfa or able as recurrence to the rate. The best results are

obtained in early mehimancy of the cervix. From 6,000 t 1 000 mgm hrs should be go n

The extent of the beneficial effect of the radium is an important question. In postmorters evarated tions of cervices treated 1th rachum Bumm found that the cancer cells were destroyed only for distance of 3 cm from the radiating source. It is respected that cells beyond this distance may be rendered mert that is their power t proliferat may be destroyed. From experiments on mice Il pasermann concluded that the ray do not kill the cancer cells but merely destroy their problems on DOM CE

In exophthalmic gotter rachation has been found consistently medal. The author has treated see cases th beneficial effect on the general concision and special symptoms. From 500 to 500 mgm. hrs. of radium radiation screened to prevent injury t the skin should be given over both lobes, the sitkings

and the thymns

Recurrent scirrhous nodules, even those otherent to the bone desuppear but recur Carcasoma of the rectum a refractory In Hodgian draws amelio ration may be obtained by applying radium over the glands and embedding it. In splenomedallary laukemus the application of radium over the spices ill reduce the splease enlargement and the whit

blood cell count and greatly improve the general condition. Recurrence, which will develop in a few months, will again yield it treatme it but each recurrence yields less readily and eventually the nation that the second of the property o

Is the treatment f exophthalms gotter and news in children, the advantages of radium as compared with the X ray 1 clude () absolutely constant dosage, (a) greater penetration and (3) concker effect. Accounts J Lauxi M (3)

Aikins, W. H. B. Radnim and Surgery I krast J. Surg. 9 3, xxxxx, \$9

Radium as the best single agent for the treatment of epithelium of the skin stathout glandular movelement. The prognoses is less favorable in these cases when cartilage or bone is involved. In cases of epithelions of the lip the results of radium trest many cases of the lip the results of radium trest many cases. The state of the results of radium trest many cases of the results of the restimate of the results of the results of the results of the resul

In cases of rodent ulcers radium is decidedly preferable to surgery. Month cases require the co-operation of the radiologist and surgeon as radium alone does not give the best results. In general the malignant tissue should be removed by surgery and the area then beauty graduated.

The treatment of non malignant conditions if the kin should be undertaken by the radiologust with great care but the results given by radium re usually preferable to those of operation. The use of radium for the treatment of kolosis cannot be too strongly urged Angonauts, warts and moles yield ell to radium. Radium is also valuable for larges trythematoris, moratism centers, and with behaviors.

crythematorus, paoragas, craenas, and tubermilous nicers
Sercomata are difficult t handle t beat Radium is astrifactory in the treatment f skin sarcomatus, anguestroma sarcoma of the conjunctiva and epois Its results in lymphosarcoma are uncertain. The uther sark for carried consideration of its use

for bone surcoms and cites cases in which long

standing cure was obtained by this means when

radical largery had been urged. For malignant breast conditions surgery is perfeatible t radium, but the author urges pre-operable t radium, but the author urges pre-operative mradium of the larger state that after operation the operative area, the artile, and the entire lymphatic area should be rayed as soon as possible and each aix weeks thereafter the authority of the state of

natures. In case of utenne fibrouls radium as of undoubted while and should always be used in uncomplexate cases when the woman is over 4 years 1 age and the fibroul is smaller than five month premise of the discount and the cases of output women and in cases of should larger than five mo the pregnancy to cotta undersated it is continue undersated to it costs undersated it is continue undersated and on the costs and undersated it is continued to the costs undersated it is continued to the costs undersated it is continued to the costs undersated the costs undersated the costs undersated the costs undersated the costs and undersated the costs and undersated the costs and undersated the costs and the costs and

Radium as specific in menorrhagia and metror rhagia d t beingi conditions. In mahijimency of the fundus of the uterus hysterectiony abould be performed. In unoperable cases radium should be med for palliation. There is considerable diversity of opinion as it the best procedure in moperable and borderb cases of cervical canter. The author advises radium in borderine cases but does n t entries an oponion regarding operable case.

Rectal caramona nav be treated by operation a hip operation of the protection of the

ALOTHOS J LABOUR M.D.

MISCHLIANTOUS

Rah, H. Further Indications for Intensive Heliotherapy (Worser Indicationes our Hocheson entheraps) Sirablesiberaps 9 m 7 5

Several cases I sciation and acute neuralizat were subjected to intensive behaberary. The first treatment lasted for three minutes and the others I five, eight and twel e minutes. I the majority I the cases the result was good.

The dvantages of heliotherapy are that absol to immobilisation of the limb is not necessary the patient is not obliged t stop work, and th administration of saleylates is rendered unneces

The author interprets neuralgus as an infection ca sed by bacteria already present in the body Chilling of the body plays a part in ta tiology by creating an area of lessened resistance. A similar etrology explains serses f diseases which are manifested by rheumati pain occurring particularly under the influence of changes in the weather month and years after an injury. This theory led the autho abject t heliotherapy cases of contusion, joint effusions, luxitions, and lacerations in which the condition was not chrome. In these cases also the results were good Diseases of the joint capsules ligaments muscles and tendons were cured completely in a short time and did not recur. Diseases of the synovia associated with only light changes of th joint surfaces healed well and without ecur rence after eight irradiations. In cases in which destruction f joint surfaces was d suced, only alleviation of pain was obtained

After the first irradiations the pain was alleviated or crased altogether. After from four to eight irradiations the disease was generally completely of chronic half munitory lexion in the skcrated with atypical epithelial prol feration

The occurrence at boar the same time of extensive degenerative chappers in the dermis accompt sed by an t ps. I growth of hair foldicles with the production of diffuse and notiniar areas of thickening, ad industrion

3 The development of a growth in the ski of the left scrotum which reserved after removal, spread diffusely over adjacent part of the kin of metastashed t the regional lymph nodes and internal overms.

4 The transplantation of the growth to other rabbits by intratestical inequalities and the successful propagation of the growth over pariod of nearly to sense (is a generations). The development of a cacheu indiof pressure

phenomen from met stases in olving the cervical and lumbs regions of the spinal columns, which eventually led t the d ath of the animal

eventually led t the d ath of the animal

6. The discourse postmortem, of an est nowe
leucoplakia of the tongue and bucul mucosa
chronic inflamin tory lemons in the orsonhagus. ith

typical epithelial proliferation and nodula growth in the left testicle differing in character from that in the scrotum

7 The prisence of extensi e hymperative changes 1 the vascular system, degeneration of the purra-

chym lona organs, atrophy of the thymus and lymphoid sy tem sociated at himose himpal desitts, trophy degeneration and necross of the superiorals, nd atrophy and h perplana of the thymus! the throne the routing

the utbors reach the conclusion that the growth is the scrotum was neoplarm of crathelad organ composed of ralls allied t those found in the bulb and root she the of the fruir

Ground I British M.D.

Sughira, K., and Benedict, S. R. The influence

of Inortanic Salta pon Tumor Gravith in Albino Rate J C wer Research 9 5, 330 The authors twilled the influence of thirty t

inorganic salts on the Hexner Jobling rat carrinoms

The salts ere to en orally

Copper subbat mean trionide, potassium carbonate and calcium chloride hid retarding infinence upon the growth of the tumor but this is not marked Copper subbat the most off or agreet, apported the an immensuring ottom

Tellurium strate and selenic acid ere found t ha a a cry marked toxic effect upon rats but no influence hatever upon the problemating power of

the tumor cells

Marnouum carbonate nel magnesum chloride

had a slight accelerating influence upon the tumor from C Rostraris, M D growth

Prood, F. C. Recent Concer Therapy Canel U

The greatly increased interest in the treatment of cancer is due not entirely to the fact that the record-

of frequency of the disease show a marked increase. The dramatic circumstances of the discovery of redum and the extraordness phenomena which is company its belogical cition on the tissue histories made the subject of interest it the opposition of the majories who feat it will the speciacular results and fail it publish the fatalities.

The radium enthuseum has now bout run its

The process fallen more than their process of the process fallen more than their process. The process fallen more than their process fallen more than their process fallen more than their process fallen more than the process fallen more than the process fallen more than the process fallen more of the hard rell type and the processors will also require it. I treat inoperative current of the hard rell type and the processors will also require it. I treat inoperative current more than the process fallen more than the process fall more than the pro

The standing of this stand for radium thereiny has been followed by great! I terred in the so-called deep X ray green are to machines do he may crude but does not cure the deeper pursuary greatlast Publish's has resulted ma ery unfortunal stratum as persons to does not cure the deeper pursuary greatlast radium on X ray tirestiment be given to make a son refusing it submit it surgery even hes fold that the result of radium are fail face critain than While radium may be seed as pullbattive necessity.

certain inoperable cancers, it should never be enployed extensively in cases in high tumors in obbiood cashs and tallorgain and there is advanced carbeaut these t ill hasten death. Only eysmall doses may be sent in relevant

prove the mental stat

ble capter

Cancer of the storach is the most any tafactory field for radiation. The utilor believes that in book-time case gustro-enterostomy is a better that rad; to. The close prosums of important organs radiers of it. In any impossible and therefore may radiation only bastens death.

In cancer of the bee est the best treatment is the most atoms operation possible followed by erybersy raying giv. for your or t increasing terrils. The author his never sees at recornic flee such for time t. When the sterain or rils ret is of ed the problem is defined. Medically

a) metastanes are incurable

Cases of blobbs, and present transmissions are is operable or borderines cause. If the surgeon is extremed skillful herm by able t care, per ceru determ I the others her rachation in the \nabla \text{yrm} and the \nabla \text{yrm} and the \nabla \text{yrm} and the \nabla \text{yrm} pressions repeated. If there is obstructions repeated, crystocom aboud be done as much of the temor removed as possible and radium needle, ment clint the hause I entain consist of acceptance if the present althour obstruction repet tid dustron without opening of the bladder may give palliance.

Borderine and inoperable cases I canner of the cost carry are best treated with naimm needles. In operable cases the primary growth and the submental and cervical lymph nodes should be removed. Many inoperable cases have been treated with an overdose I radium or A. 12. It is better to give a dose only sufficient to cause shrinkage and then to remove the cervical lymph nodes.

In bose accounts the pathologue has thus farbeen usable of determine the degree of malagnator of the different types of growths and until this is determined there will be much uncertainty. If these cases cannot be curred by surgery they cannot be curred by radiation, for estocaromast, and doe dreserromats are so highly resistant t radiation that they are as offer in multisted as jushed bet by large quantities of inserted radium or intense high voltage X xx treaters.

In pre operative raying of operable cases the operation must be done within forty eight hours after the raying and the kin over the radiated area must be excised.

Pigmented moles should never be treated with radium, the X-ray caustics, freezing age is, or the cautery but should be widely exceed

In circumna of the cervis of the uterus relation may sell comply with surgery Astonashing palls true effects are obtained, and a few advanced cases have bee free from recurrence for four or for sens after radium treatment. Only one large does about the green. Carnoom of the body of the uterus should always be treated by hysterectomy. The tumors are of low grand makingancy forming metastases last and the results of operations are extremely good.

The only other condition in which radium can compete with surgery is the basal cell tumor of the skin. Such tumon yield to erythems does and most of them can be cured by ungle treatment with other the Y ray or radium. Recurrences, how ver are very residant to thus treatment.

In summarizing the author makes the following

Operate upon all operable malagnant growths. An importable carcanoma should be treated with radium of c is small and fairly well locahead, but if t is creasive, it should be treated with the N ray. Even if radium and the N ray never effected a cure their new would be junifiable on account of the pallation they often give, which exceeds that obtained by any other known method. Part. W Swerr M D.

Semprún The Future Surgary of Cancer (Le futura caragus del cáncer) Res espe do carag 9 415

A study fithe cancer cell show that it is charactensed by high content of glycogen Cancer can be treated in the same way as rables without the discovery f the true nature of the virus Semortin found that, so stre a best commine salt to which conn is added is mert toward virulent emplifion of cancerous traste but active when it has been exposed for two hours to the radiations f a mercury quartz lamp. If a cancerous emulsion which has been added outsine eoun solution that has not been exposed to the mercury quarts rava is mjected int animals, positive results are obtained in 48 per cent, b t when the quinine solution is ex posed t the rays the positive results after insection are reduced to from a to a6 per cent Sempenn ductumes the causes of this immunity and the prophylactic value of serum therapy in certain clunical cases

With regard t the supposit treatment of cancer Scappins state that before operation the patient should be subjected to preliminary treatment with injections of rodated seriou until there is improvement in his general condition, and that the instruments and suture materials used at operation should also have been exposed to the rays of the mercury quarts lamp. After completion of the operation the operative field should be exposed for fifteen minutes of direct relations of the mercury lamp placed at

distance f 40 cm and moved t intervals so that all parts will be well irradiated. After this exposure the wound may be sutured. W. A. Barvary

cured. The author speaks of a pain dose, and a curative dose the litt amounting to three or four times the former Hu vr (7)

Kolischer G and Katz. H. Surgical Diathermy in Its Relation t Radiotherapy J Rajul 10 1 1 76.

The author gives brief description of surrical disthermy and compares is technical and chineal ad antages with those of the Parmehn cauten, the soldering iron, and the gibranocautery. The index-tions for surgical diathermy expanded—th development of the technique and improvement in the results. Soon the fact became upp rent that electrocoagula tion of that may I tumors should be done in contract tion with radiotherapy as the therapeutic results were better f the raying wa applied to hypersemized structures A is ont method of producing hy peramia is the employment of medical diather hich tiracts the blood to the structures by be ting them molerat ly but thoroughly with the high frequency current

A series of eucal and uterfine cancers demon strated that surposal do there is the most efficient method of improving the bealing effect of radiotherapy After duagreeable expenences with total congulation of the tumor mass in cases of stemure uterine esical and prostatic cancer only limited congulation was done and thi was followed up by ra ing either with radio-acti e substances or ith the roentgen t be In the course of further observ tions it we noticed that raying applied soon after electrocongulation seemed to give better result

thus radiotherapy administered some time I ter It therefore he become routine t congulate mahgaant tumors only to a hanted extent and to administer the therapeutic rays within forty-eight hours. In this way ery satisfactory results have been obtained seven in apparently hopeless tracktions a cliqual cure has been effected. The term clinical cure is chosen for these cases became the case of uterme cascer treated carbert was treated only fix years ago and the case of escal cancer treated earliest as treated sub three years

Investigation of the immediate results of surpost distherms demonstrated that beyond the rose of necrous and scaling of the hamphatics it creates some of pronounced reaction, an area of ascetic inflammation characterised by the appearance of numerous round cells, leacocytes, and fibroblists All these are cell of high vitalistic I action It was found also that the cells compoung the fibrous tuses become energized, this being evident from the fact that they accept ital statutog It is fair t assume therefore, that cancer cells hour in this perithermic some also become energiaed and that under this increased vital potency they may produce materials which if brought sat the circulation, may stimulat the endocrare glands to the production of defenure and protects ferments These biological considerations together ith the clinical observations, suggest that only the decayed and decaying makenant cells should be destroyed by surned diathermy the malignant cells high are still at the peak of their periodicity of life being left to the influence of radiotherapy

The conclusions drawn are summ rised as follows: Surgical disthermy is a potent factor rahancing

the increase of radiotherapy Hertrocoughlation and raying seem to furnish the possibilities of a tree chemotherapy of malignant

(timors Ravine must be administered while the peri thermic gone shows pronounced traction MOREM HURTENA, M.D.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Dubroullh, W. The Treatment of Laprosy (Trutment de la lapre). J. do sold de Derdona: 9 3 xcv

When that leptory is contagous but not how the contagon is carried Inconditions have been negative and in syst of the research of Ehlers. Marchow, and Bourset, unformediat host for the transmission of the disease has been found. In Norway I Bowing solution of those affected by the disease, the number of lepters fell from Ag8 m. 876 to bo m. 9.0 Ambulstory cases are carried and white the modern that they may not spread the dis-

If Haven every leper is sent to the hospital at Ashin have he in treated, parently cured, and then ireed on condition that he will return at regular intervals for communition. Progressing cases are sent to the leper's coloury at Michael where they remain the present of the present of the cured that inches of village life. Were such heabands are permitted to the together but when chalden are been in the coloury they are taken as y as soon as possible and raised elsewhere taken as y as soon as possible and raised elsewhere Leptony as on occasiant's fatal even advanced cases may become cured. Such cures are usually spon tancous

Formost among the agents which have been used in medical treatment as wacunes and assessment and Klingwuller exmed leproos lessors, sepressed per from them, and uncealated this separation will have enforcing from the disease. Wooleys stemulise this pass first From leproos tissues who has been dired, inturated with sand, filtered, and standard are madison has been and for hypothesis in period with the second of the second control one cure from whilmans, in goo claimed one cure from with lapetons, but Castellam and Lattle stated that the patient was not cured and that the method had failed in their hands fifteen resis proviously.

The bacillus of legroup has been sought but can true from an acid fast bacillus sometimes found in the tunes have failed to give a cure. Roat' legroles is the glycenoe extract of such callure. Bryches nature is an ether extract. Both if these have failed, as have tuberchin, bone serum scale group mercury carbohy od amendennol, and potassems soulse. Amon arenophenol has gives some promise of success. In the Orient, challmorps od, soft, yellowsh sould has been med as

cure for leprosy for several centuries. The dose tolerated is variable ranging from to 200 drops. The purified cell may be used for ratecularones or intramscellar injection. It has also been in emitra vascular but the danger of pulmonary fat embolism must be considered. Especially dangerous are insut be considered.

jections of mixtures of the oil and other. Ethyleither extracts of chaulmongra and are now comuncred beat. These are injected into the gintreal muscles once week, the does being gradually increased from 1 to 5 cm. and the treatment continued for moeths or years, even after the cure seems complete. The area injected in paniful for two or three days.

two or three days
Kritiogo Sector M D

Westmann, S. Duabetic Gangrene and Its Treat ment (Die dabetische Gangrene und ihre Behandlans) Zirche (austi Ferbild 0.3 xx, 37

After it was deckled that in case of associated gaugines and diabetes, the dashetes was the primary factor the question arose as to how gaugines developed in the absence of a sain lesion and without the entrance of progenic bacteria into the blood Whether it develops as the result of faulty diffusion between the tissues and the blood or whether it due to artend throughous (most if the subjects being old persons with artenoscheroms) has not yet been determined.

In hight cases of dashetic gaugenee good results may be obtained by the tand the delay of other treatment until demarcation occurs. If the patient is already septocemic little hope remains. Because if the better results which were obtained from wide opening of dashetic carbinoles more active treatment is now recommended for dashetic gaugenees and upon the state of the state of opension depends upon the state of the state of opension depends upon the state of the contractions and carbons on the state of the

The prognoss is unfavorable when inflammation extends along the virus and hypophatics of the thigh, and when acvicionia and come are present, but even under such conditions, title duct—starvision treat ment especially—and the administration of large quantities of skin by mouth, by rectum and listra venously in conjunction with urgery may be beneficial. Two such cases are reported. Euro (2)

Brown, W. H. and Pearca, L. Studies Based on Malignant Tumor of the Rabbit. L. The Spontaneous Tumor and Associated Abnormalities J Exper Mol. 9, 3, xxx, 4, 60

The following is summary of the most important findings made by the authors in a study of the development of malagnant tumor at the site of a primary syphistic lesson in the scrotum of rabbit about four years after moculation.

A mild but persistent syphilitic infection with an occasional relapse and the eventual development of chronic inflammatory lessons in the skin amocusted with atypical epithelial proliferation s The occurrence at about the same time, of

extensive degenerative changes in the dermis accompanied by an atypical growth of him follows with the production of diffuse and nodular areas of thickening and induration The development of growth in the skin of the

left scrotum which recurred after removal agread diffusely over adjacent parts of the skin, admetastasized to the remonal lymph nodes nd miernal oceans

a The transplantation of the growth to other rabbits by intratesticular moculation ad the reconstul propagation of the growth over a negotiof pearly t years (twenty generations)

t The development of cachexia and of pressure phenomena from metast we my of use the cervical and lumber remote of the spanel column, which eventually led t the death of the ammal

6 The discovery postmortem of an extensive leuroplakes of the toneme and buccal muchachronic inflammatory lepons in the resochurus with atypical epithekal proliferation and a nodular growth in the left testicle differing in character from that in the acrotum

The presence of extensive degenerative changes in the vascular system degeneration of the parenchymatous organs, atrophy of the thymus and lymphoid system associated with chronic lympha denitis, atrophy degeneration and necross of the suprarenals, and atrophy and hyperplass of the theroad the chronic theroaditis

The utbors reach the conclusion that the growth In the acrotum was peoplette of critical Commit composed of cells albed t those found in the bulb and root sheath of the has

Opposed E Barnay M D

Sughum K., and Benedict, S R The Influence of Inordanic Salts upon Tamor Growth in

Albino Rata J Camer Research o The athors studied the influence of thirts t

moreage salts on the Flexner Johling rat currinoma.

The salts were given orally

Corper sulphate, raene trionde potasuum carbonate and calcium chloride had retarding influence upon the growth of the tumor but this was not marked. Copper sulphat the most effective agent, preured t ha e an immunimum action Tellimon natrat and selenic acid were found t have a very marked toxic effect upon rata, but no

influence hatever upon the proliferating power of the tumor cells

Magnosium carbonats and magnesium chloride had a slight accelerating influence upon the tumor erowth Eart, C ROBITSHIER, M D

Wood, F.C. Recent Cancer Thompy Canadia 11 An J organis

The greatly increased interest in the treatment of cancer is due not entirely to the fact that the record

ed frequency of the duesse show marked increase The dramatic circumstances of the discovery of radium and the extraordinary phenomena. buch accompany is belogical ction on the turner ha made the subject of interest to the commercial dealer nd the newspapers ho feature all the speciacular

results and fail t publish the fatalities

The rachum enthusasses has now boot run its course. The price has fallen more than thereprimarily because of a buvers' strike. Physicum do not ca t invest a large sum of money in a substance of such him ted capacity. The dermatologist however will always have need of moderate quantity of radium to treat semi benues superficial tumors of the basal cell type, and the expecularist will also require t t treat inoperable carcinoma of the cervix W should not allow the high optimism to be replaced by an extreme persummen for although radium may not cure many cancers, it is valuable djunct to surgery and uneful pallestive in moper able cancer

The waning of enthumann for radium therapy has been followed by great interest in the so called deep \ ray generated by machines delivering our rents in excess of 200,000 olts. This also is of value but does not cure the deeper printers growths Publicate has resulted in ery unfortunate attaction as persons ath operable arowths often insect that racium or \ ray treatment be given and many are now refusing t submit t surgery even when told that the ruralts of radiation ref feet certain than those of complete responsi-

While rachum may be used as a palliating measure m certain inoperable cancers, it should never be exployed extensively in cases in luck tumors involve blood casels and tall organs and there as advanced cacherus in these t will hasten death. Only very small doses may be at en t reheve pain and im-

prove the me tal stat

Cancer of the stomach is the most unsatufactory field for ruth tion. The anthor belie of that # borderline case gastro enterestomy is far better than radiation. The close proximity of important organs renders effective raying impossible and therefore any

radiation onl hastens death

In cancer of the breast the best treatment is the most extensiv operation possible followed by ery herry raying given for year or t at increasing intervals. The author has sever seen skin recur rence after such treatment. When the sternum or ribs are involved the problem is difficult. Mediasti nal metastanes are incurable

Cases of bladder and prostate carcinoms are in operable or borderline cases. If the surgeon is extremely skillful be may be blat core to per cent of them I the others hea radiation it is the \ rav gives some relief. If there is obstruction supra publicy stostom should be done as much of the tumor removed as possible and radium needles casert eduat the base I certain cases of careinoma of the thout obstruction repeated reduction

prostat thout opening of the bladder may give palliation Borderine and moperable cases of cancer of the coal cavity are best treated as threadum needles. In operable cases the primary growth and the submental and cervical lymph nodes should be emoved. Many inoperable cases has been treated with an overdose of radium or \(^1 \) and \(^1 \) it is better to give a dose only sufficient it cause shankage and then to remove the cervan's livenib nodes.

In bone sarcomats the pathologus has thus fare been usable I determine the degree of malignarev of the different types of grow the and until this sedetermined there will be much uncertainty. If these cases cannot be curred by surgery thes cannot be curred by reduction for optionarmum ta and choosely served by reduction for optionarmum ta and choosely served as the served to the served to the served they are as often atmosfered as junkbated by large quantities of macried radium or intense high voltage. A ray treatment

Inpre-operative raying f operable cases the operation must be done a thin f rty eight hours after the raying and the skin over the radiated area must be exceed.

Pigmented moles hould never be treated with radium, the X-ray caustics, freezing agents, or the cautery but should be widely exceed

In circums of the cerva of the uterus relation was electroped th surgery At making pallia to effects are obtained, and few advanced cases have been free from recurrence for four or f. years after radium treatment. Only one large dose should be given. Carcinoma of the body of the uterus should alw be treated by historicolomy. The tumors are of low-grade malignancy forming metal-asses last and the results of operation are extremely

The only other condition in which radium can compet with surgery is the basal-cell tumor of the skin. Such tumors yield it erythems does and most of them can be cured by single treatment with either the Xinty or radium. Recurrences however are ery resistant; this treatment.

In summarizing the author makes the following statements

Operate upon all operable malignant growths. An apoperable carrimons about the treated with radium of it is small and fairly well localized, but if it is extensive, it should be treated with the X-ray. Experiment of radium and the X-ray never effected a cure their uses would be gratifiable on account of the pulliation, they often give, which exceeds that obtained by any other known method. Put W Swery M D.

Semprún The F ture Surgary of Cancer (La futura cruga del cáncer) Res crista da 1185 0 478

A tudy of the cancer cell show that it is characterazed by a high content of glycogen. Cancer can be treated in the same way as rables without the discovery I the true nature of the virus Semprin found that tre a base crumine salt t which eoun readded is mert toward virulent emulsion of cancerous triene but active whe it has been exposed for two hours t the radiations of a mercury quarts lamp. If a cancerous emplacen or seems t which has been added country econ solution that t been exposed to the mercury quartz rava is injected int animals, positive results are obtained in 48 per cent, but when the quinine solution is exposed to the rays the positive results after injection are reduced t from a t at per cent Semprun discusses the causes of this immunity and the prophylactic value of serum therapy in certain clinical cases

With regard t the surpoil treatment f cancer Semprin a tase that before operation the patient should be subjected to preliminary treatment with injections i frashted serum until there is improvment in his general condition, and that the notice ments and unture materials used it operation should also have been exposed to the rays of the mercury quarts lamp. After completion of the operation the operative field should be exposed for fifteen munutes it direct radiations of the mercury lamp placed it.

distance of 40 cm and moved at intervals so that all parts will be well irradiated After this exposure the wound may be sutured W. A. Bannaki

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INTERNATIONAL ABSTRACT OF SURGERY

NOVEMBER, 1923

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Blair V P., and Padgett E C. Pyogenic Infection of the Parotid Glands and Ducts. 4rck Surg. 9 J. L.

Acute supporates parotitis is generally an fection ascending from the d ct which is associated a the decrease in the salivary flow fever and det noration of the general health. In all Cases of severe septic paretitis associated with obstruction not due to stones, early drainage is beneficial

The fifty cases reported by the authors are divided int t o groups () primary cute inflammation of the gland (2) primarily recurrent symptoms of

duct obstruction

In Group a there were thirty by cases of scute pyogenic parotitis characterized by sudden met severe local pain marked swelling (first of the gland and later becoming rapidly extend on cellulitie for the neck, head and face), and the general symptoms of a severe unfection with childs and fever. As the infection spread ordema closed the eye (five cases) mived of the neck down it the claricle (two cisers) extended to the breast (one case) extended back. ward over the maximal process (four cases) or en-croached on the phary ax and threatened the air passages (one case). During the tage of acute raciling one patient died from what ppeared to be cedema of the glottes

Less often the disease was associated with only alight local enlargement, mild rise in the tempera-ture and moderat pain. Evidence of duct infection vaned from manut red protrusion of the duct mucosa at the papella t the exudation from the duct of tring of cloudy muchs or pus Sometimes both tre present Six patients became delinious four had convulsions three uramus one myolvement of the seventh nerve and several, spesm of the muscles I mastication which prevented opening of the mouth. The disease was practically always secondary to, or present as a complication of an injury postoperative stat some sout or chronic

illness or a terminal condition. When noe relieved it showed little tendency to recur. It was more fre quent a adults (twenty six cases) especially after the third decade of his (seventeen cases) in lemales (t enty four cases) than in males, and during the winter months when remeratory infections are more common that in the summer months. The organ sem remonstible as usually the stanbylococcus. In one case the presimorperus was found. Streptococcus infection was extremely severe and in one instance caused death

Mild cases were treated only with hot or cold pplications More severe cases in which the condition was not terminal were operated upon as soon as t became evident that the injection would not submde spontaneously. In doubtful cases the gland was opened not later than the second twenty four hours. The uthors consider t a more serious error to delay operatio too long than to nesse the gland unbecessarily. The purpose of operation is to pre-

The incision is begun a cm anterior t the ear t the lower border of the sygoma and extended back to the ear downward to behind and below the ngle of the nas, and just through the capsule. A fine of akin and issens is pulled forward with sharp rake retractors, the capsule is stripped from the ent re gland, and the parenchyma is punctured and torn n many places. The facril netve, which lies deep a safeguarded by puncturing the gland with blunt The whole gland must be exposed and explored The portions behind the lobe of the ear and along the origin of Stenson duct are the open which are often missed. The wound is packed wide open with gauze and bandaged with pressure. The a ound closes spontaneously and noticeable scarring is prevented as most of the incision lies in the angle at the juncture of the cheek and the ear Repunc ture may be necessary if the original exposure is 18complete

After the operation the relief of symptoms is almost mmediate

In three cases a shirary fatula des eloped after fucision. Of the thirty five patients, fifters (478 per cent) died. Is eight cases the conducton was mid and required as treatment. In eight others there were terminal complexitions and no treatment was given. In sixtem cases operated upon there are dies nor review nor review and review of the patients were saved by operation. Eight were benefited and their considerance as shorteach

There were fattly iff when the paraeltis developed in the cases of Group paraelti associated with obstraction, the obstraction we due to wrelling and thickening of the nursus, a play of moreal soft at the meatur, inflammation construction, or tope formed which the door. The condition was not acted to paracetastics of moderate ke! I pain and a ling, offen more promounted when hold was taken or thought of and sometimes with remeral improvement of a mid infection. The acute upon of the first group were rarely noted Complete of the structure of the door treatful in trophy of which in the contraction of the door treatful in trophy of the first properties.

coture cland. Exacerbations were frequently related to acute infections in the mouth and nasophary ax I wally there we some inflammatory disturbance of the duct. During the tta ha the sain a often contained thick mucus, and occasionally this as cloudy or semipuralent. As a rule hanges in the salis a were twocuted with symptoms of mild infection. In one case a stone in the duct was felt with probe and in another a felt under the kin with the fineer All large stones ere shown by the \r v When the rain as due only to back pressure of the asks there were no constitutional symptoms. In acveral cases bronse ocomplet barraction as followed by indur two of the gland. Intraglandular abscess des loped in a cases in four it a suigle in one double in none miliary. In no case w. Ld. thre tened. Chrosic obstructs a parotitus sia occur t any age and usually develope thout preceding or accompa ying severe or debilit ting lilness I three cases bower I followed cold, in one the extraction of tooth, in one attack of tourillitie,

and in one tonsillectomy The treatment onsisted a the control of the infection of the mouth and mopharynx and the relief of the obstruction t the saliva. The removal of stones resulted in complet recovery. Obstruction due t acut an thing of the mucous haling of the duct or t mucus as often temporarily rebeared by dil ting ith probe but occasionally severe reaction followed the use of the probe In cases without stone and hen probe dilatation lails to give per manent relief the uthors in or slitting the meature and enturing the epithelial lining to the micross membrane of the mouth. A probe or probe sciners is passed into the duct and the duct is abt for) is in Three titche of fine silk, one at the apex and one on each side are usually sufficient. In one case, in which Stemson duct was astuated close to the gragive of the upper second molar recovery resulted after transplant tion and splitting

In addition to the two groups of cases described, the authors series included one case of questionable tuberculosis, two of absence of both partod papille and syphilis, three of munficient secretion, four of functional nervous derangement, and 5: of onegenitally large paround. Wanter C. Berner, MD.

Woodman, F. M.: Malignant Disease of the Upper Jaw. with Special Reference to Operation Technique. Best J. Surg., 9 L. m., 53

Woolman threifers milimant proplisms of the upper law according to their sit of origin as follows (1) public and also only, (3) as situres, (1) epider and, with lineason of the ja and (4) check, with in asson of the mantia.

In 1900e or too making. With regard of the value of radom, the Vray and disthermy in the treatment of volt growths the surbor is not very enthresiste. With regard is the samped first there is the test that the properties of the protect. There are certain these of cases which are price if the protect. There are certain these of cases when are price if the protect. There are certain these of cases when are price if the protect. There are certain these of one when are price if the protect in the protect is the protect of the protect in the protect in the protect in the protect in the protect of the cases and case are presented in the protect of the case agreement price of meets of the caveroom of the pix segretaing involvement of the caveroom

In operable cases the operation is performed with the patient in the upright position, and intratrached anysthesis is tadaced with ether. The incison is begun is the center of the eyebron and carried down and made bet ren the bridge of the scot and the meer canthus of the ever then along the me of Ferruson incurrence don t the groot at the sele of the nour around the external name t reach the philtrum, ad then through the kp On the barral surface of the check the greatest care is taken to divide the mucosa los down, mamediately abos the neck of the teeth, and t elevate it throughout the entire length of the measure. In this manner it is possible to an considerable portion of larrates mucous membrane which can be entered in position to the raw area on the raner side of the reflected cheek. The cheek flip is then drawn audo and care is taken to carry the knife down through the personteum to the bone particularly on the meet sale of the nose If the growth has extraded back and, and especially if its base in in the previous muscles, it is necessary to make use of the horizontal secures beneath the orbit but this is orded if posable. The cheek flap is protected from selection during the removal of the growth and the raw sur fice is an bled the uncture of beason and protected ith assall gauge pad scaked in the solution and sutured into position. The subsequent steps depend upon the nature, origin, and extent of the couth

If the growth is confised t the lower half of the superior manifis and does not involve the upper au pursues, the lower part of the upper jaw in removed, the infirst-orbital plate being left infact. T do thut, a horizontal incrsion is made following and parallel a th the lower margin of the orbit at about the level of the infra-orbital foramen, carried through the ascending massl process of the supersor marilla into the nose, and through the body of the malar bone t the ptery gomanilary fome. The line of ttachment of the cartilages of the nose t the bone is then divided, and if the nose is not involved the mucoperestrum can be easily elevated and the soft parts of the nose turned inward without opening the cavity. The hard palate is the divided sagittally from the alveolar process backward. The separation is completed by detaching the soft palate by horssontal mention and separating the back of the max ille from the pterygoid process by driving strong esteotom in between them. This partial measion, when it is dequate, gives very satur ctory anatom scal results the orbital cavity is not opened, and there is no dropping of the eye with consequent failure of alinement. The nasal cavity also is un opened and its important functions remain intact The procedure is mutable for most growths arming from the palat and alveolus, even when they ha e perforated the antrum, provided their limitations can be accurately seen and delineated

When the malignant changes have movined the opper air mines or the orbit, most extensive exposure a necessary to eliminate the disease. First of all the upper jax and the entire side wall of the note must be removed. Only too often the procedure is considered sufficient for the removal of the growth but it cannot be too strongly emphasized that it and you go stage in the exposure of the deeper and

more delicate parts around the skull base It is impossible t remove such growth in one perce without breaking across various extensions The entire ethinoid up to the cribinform plate should be systematically removed, the sphenoid then open ed, the anterior and inferior walls of the sinus cleared way and the contents exenterated The frontal same must be dealt with in similar manner. The duct should be traced upward and all the frontoethmosdal cells and the floor of the frontal sunus removed. As it is never advisable or necessary to remox the anterior all, considerable deformity is prevented and mirection of the diplot exceeded. Several cases of cateomyrchius have been recorded as the result of Lillian a method of expos-I f this stress. If possible an endeavor should be made to leave the periosteum of the orbital cavity intact, but everything must be done to assure the complete eradication of the growth. Special atten-tion must be paid to the fat and muscle of the picts generalizely forms. A common extension of the growth is backward through the internal name int the pharynx bere it her free in the cavity Extension into the pterygoid fosts is regarded as the most difficult to remove and one of the most frequent causes of recurrence. After perforating the thin posterior wall of the astrum, the growth exters highly ascular region and spreads rapidly between the fasciculi and planes of the pterygoid

muscle into a region which is difficult to approach poperation. After bealing takes place, there is often a readual fiftrons in these muscles which leads to considerable difficulty in opening the morth. At the conclusion of the complete operation, the frontal alons, the sphenoid, and the embridorm plate is freely exposed and form one large cavity leading to the morth below and intent internally by the septims of the none and externally by the replaced check flap.

Hegadues, Z. The Rebuilding of the Alveolar Proc seese by Bone Transplantation Dexiel Cosmon 913, kv 736

A piece of bose transplanted with its periosteem it will grow even in bose long infected with pyor them. The tendency toward healing is better in the mouth than anywhere teles in the body. In the mayouty of the author's cases primary bealing occurred.

In the first attempts the transplant was taken from the maxilla or the mandible. Later it was obtained from the tibia

Before operation the degree of pyorrhora and the number of teeth over which it extends must be determined. The teeth must be temporarily furd as the away largiture figure of eight or Schreeder' splint and arch. The occlosion should be taken care of by closing the teeth together t word a change in their position. The technique of the opersition is as follow.

Under anesthesia a transplant is obtained from the creat of the thin of the deared shape and size cm wide and not thacker than 2 mm. Care is taken t pervent injury to the perforteum. A bed in made in the 3 w milet Neumann sunfolding operation. A final part folded back and the perparation carried past the transition fold. If this is done well, the giam can be raised and seved back it the original height. The roots are cleaned, the softened bose is removed down to sound bone, and the sound bone is freshened with fine strokes of the chief. The transplant is find with one or to a stricted of cettert and the lateral lacenous in the inter-dental papillic are yound together.

Strict sterilization is necessary t prevent infection, the mouth must be kept clean after the operation, and a hquid diet must be given for two days.

In one case the gum brok down because of overstretching Six cases a th good results are reported Makeus H Horak M D

ETE

Weber F P A Case of Exophrhaimos Probably Camed by Non-Suppurative Cavernous Sinus Thrambosh. Pric Rey See Med Load 9 1-20 Cas Seet 4

The case reported was that of a noman as years of age who when first seen five months after an



The article is concl. ded with a discussion of the differentiation between retino cerebral degeneration, retinitis pigmentosa, and central chorioretinitis THINKS D ALLEY M.D.

Apoleman, L. F Papillitis with Focal Infection Am J Opini 4, 563 93-5

case of gradual fedure of Appleman reports venon over period fair years with narrowing of the field of vision and enlargeme t f the blind spot The optic dals of both eyes were swollen After the removal of twelve teeth and the treatment of others the vision again became normal VIDEOUS AND COLL JI D

Cutier C. W Ducase f the Optic Nerve and Its Relations t the Posterior Massi Sinuses A Report of Four Cases Showing the Uncertainty of the Dungmous. Arch Ophib 9 3 hs, 53

In acute sinus disease a th involvement f the optic nerve the outcom is usually good but there are many cases simulating retrobulbar neurities a th and sthout mard sinus in olvement which do not conform t the accepted views C tler reports four cases one f ansurann of the carele of Wilhs one of encephalitis lethargica one if diffuse peri neurits and thyrotoxicosis, and ne f sinusitis th towns. I all of these there was evidence of optic neunta enlarged blind spot peripheral co tractions, and reduced vision VIDENT WINDOWS M D

Thomson, St. C. Ontic Neuritis of Sphenoidal Sinus Origin; Operation Cure Brd II J 9 3 025

The case reported was that of patient who had postnasal duchange for several years. The ey symptoms began suddenly with a decrease in vision in the left ey followed a few day later by pain and tenderness t pressure above it Vision was 6 9 m the right eye and 6/60 in the left. The left disk showed 6 deopters I swelling and the field of vision in the left ey was somewhat contracted. Pus was found in each choose and on the floor if the nose The \-ray showed involvement f the frontal and sphenoidal sinusca

A improvement in the ocular condition was noted after three day of treatment a th radiant heat and steam inhalations. Operation was therefore d

Under general anesthesia upplemented by the application of 5 per cent cocains and adrenalin pack under the middle turbinates the middle turbi nates were fractured 1th long killian forceps the sphenovial unuses were entered and the ostrum

as enlarged the punch For the ext four days no treatment was given improvement in the s) inproms was noted. The sames were then ashed out and limost immediat improvement in the e) symptoms follo ed. After repeated lavage of the sphenoidal sinuses t mcreasing intervals the eye symptoms and the postnasal discharge entirely datappeared

Commenting on his experience with these cases. the author draws certain conclusions. Separa I the accessory mauses rarely causes retinitis, papallitus, or optic trophy though frequently it may be the source of orbital affections. A suppurating sphenoid complicated by ontic trophy should be opened and druped In retrobulbar neurita even in the presence of negative findings as to sphenoidal infection opening of these sinuses seems to be warranted MANFORD R WALTE, M D

Vall. D T Concerning the Surgical Treatment of Glaucoma with Special Reference t Mod fed Elliot La Grange Technique Arch Ophia

Vail believes that the best results are obtained acut glaucoma by von Graef indectomy in sub-cut glaucoma by Sm th indectomy and in sec ndary glaucoma by removal f the cause supple me ted by paracentesis or indectomy

Glaucoma amplex he timbutes t arterioscleroils Il th regard t the treatment he makes the following statement When esen fails t ontrol the ten son, retain the vision and field of vision in stat exe nte operate before t m too late He failed t gun good results by his operation of connecting the vitreous chamber with the lymph space of Tenon but his modification of the Elbot and La Grange operation has proved successful. H trephines the sclerocornes, performs the indectomy in the ternal By and makes 1-mm meason to the left and right f the traphine opening parallel with the periphers f the corner. The traphine hole does not close bef re the t lateral incisions. This operatio gave good results in ninetren cases in which it was used the last two years and failed only t see I DECEMBER AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF

Lodge, S and Lodge, W Herres Zoster Ophthalmicus Brd If J 934, 044

The incidence of herpes soster ophthalmless t clinar cases ranges from in 0,000 to in 5,000 Most I the subjects re bout 55 years of age I children the symptoms are usually negligible. Th conditio occurs a th equal free ency in males and females and on both sides f the body. It is usually sporadic, supervening during temporary fatigu in persons otherwise healthy and curve. According to th position of the causative lesson Poulard distinguishes three types of the condition the neuritic or peripheral form, the hisomeric or ganglionic form. nd the metameric form in which the less in is in th pontomedullary nucleus of the fifth nerve Herpetiform eruptions are found in 1 per cent of

cases of lethargic encephalitis, and Head and Camp bell state that anatomically and pathologically herpes zoster may be described as acute posterior poliomy clitis. The authors rause the quest on as to whether the virus f shingles in tienuated form is not liable t an increase of irulence

I mild cases the early neuralgic pain is unilateral but in severe cases there is intense headache a th comiting. Meningitis may be suggested by myolve ment of a menunceal branch from the ophthalmic division of the fifth nerve According to Chauffard, extension of the discuse t the meninges in spinal mater would account for the pain down the spine girdle sensitions, etc. Formication is a tymes symptom Causalgin is dependent upon the ge of the patient and the extent of the scarring. Anses

thesia dolorosa m y persist for as long as two years Cutaneous manifestations make their appearance as follows hyperalgena, erythema, vesiculation, rupture of the vesicles, excatrization, and hypesthese According t Poulard, the eruption may be

hemorrhagic.

The disease must run its course. Morphise, though indepentable at times, is dangerous because of the duration of the disease. For some cases Huchinson recommends rsense. The authors rec ommend the local use of dusting powders until the esicles rupture and then the application. I coculae or orthoform oratment. In the later stages, painting with acthy of in gly ceruse or massage with any simple cintment is effective Paroline installed int the contractival sac may be beneficial. The intraocular tension should be determined at regular intervals. In severe cases medial tarsorrhaphy is indicated this provides natural dressing with adequat dramage. The central united portion is not divided until corneal sensibility returns

MANTORD R WALTE, M D.

Franklin, W S and Cordes, F C. Lupus V Marie with Ocular Extension Am J Opich ors, 4 573

Franklin and Cordes report a case of lupus vulgarm first seen when the pittent was 3 years of age nd then not seen agun for nine years, during which time the condition extended and invol ed the face At the second examination the upper and lower lids of the right eye were found contracted and the exposed comes was opaque. The removed eye showed endermoid epithelium and round cell infil tration of the corner and vasculanty. The episcieral timue and the sciera showed. well-defined grant cell-A DESCRIPTION AND PROPERTY IN D.

LIE

Odenesi, T II Otitis Media, Mastorditis, and Disease of the Natal Accessory Sinuses as Causatire Factors in Visioutrition in Children Ann Otel Rhund & Laryugel 923, EXXX, 50

In pproximately 75 per cent of the cases of mal nutration admitted to the Ancon Hospital, Canal Zone, ear ducase had been present at some time in the development of the condition. A few patients had the characteristic symptoms of otitis media and the fever was relieved by paracentesis. In the majority of the cases, however, the ear findings were pegative except for lack of laster of the drum and shight thickening which did not prevent the hight reflex Following paracentests of the appearently

normal drum, slight improvement was noted, not withstanding the fact that the ears did not declare for the or three days after the puncture. The delay in the discharge was attributed to sion dramass from the masterd cavity. The infected care, local were not punctured drained through the contaches tubes

I the uther opinion, malautrition is sometimes due also t mastold misction

JAMES C BRAINELL MD

Layton, T B The Treatment of Acute Othis Media in Children. Bei J Chill Do 1 12.

Layton discusses the changes in the presence of the drumbesd in otitis media, from the earbest evidence of inflammation to bulging, and advact frequent inspection in order that, if bulging occurs, an incision may be made before the occurrence of gnontaneous rundure

As local treatment the application of dry heat and the instillation of warm carbolic glycerine drops are recommended. The use of moist heat in the form of warm irrigations of water is condemned as it causes maceration of the epithelial kning of the casel and prevents proper inspection of the drum

After an incision has been made or rupture has occurred, the canal must be kept clean and the opening patent OTTO M ROTT MD

Alden, A. M. Myringstomy from the Standpoint of the Pathology of Early Otitis Media Mineen State M Am 9 3, Ex 69

The author states that when my negotomy is done by a skilled otologist on the proper indications it a without danger and practically always successful The routine of opening every red our drum 1 0000 as arong. Alden discusses the mechanics of the middle our and the pathologic changes t king place during an early outs mecha. Inch show the dingers

of mynagotomy at the wrong time When the inflammatory process begins in the pharyugeal end of the costachian t be the resulting congestion and swelling cause a negative pressure in the moddle car ca ty because swallowing or mestication does not open the tube. This allows the drain to be forced are ard by the outside air pressure. The negative pressure causes the blood essels to become engorged and swollen and the external surface of the drum t become red. A continuation of the process causes transpolate to collect in the middle car cavity This find as well as the cavity material, and opening mystes infection. Alden treats this stage by applying adrenalin t the pharymeral end of the tube, as see bug t the external ear and proper medication to the phary ngeal - ult

The change to the second stage of the condition as gradual the negative pressure changes to positive the tympanic membrane is gradually forced outs ard and the drum bulges sat the external aditors canal At the same time the transactat becomes infected, the para changes from stopped up feeling 1 & lancinating pain, and leucocytosis appears. The drum should then be opened. For this operation an anisthetic should be given, preferably nitrous oxide, except in the cases of very young children. A drum properly increed rarely needs re increson The au-

ther's conclusions are Neither the color of the dram nor the configuration of its external priace abould be regarded alone as an macs of the stage of the ear disease. The decessors for or against memon should be based upon all of the signs and symptoms considered together

Perfect control f the patient is obtainable only by

some form of general narcous Paracentess should be done only in cute inter

stitul myringitis all other openings should be incissons rather than staba

If the drum membrane is properly opened, re momon is rarely necessary. If the fever and other symptoms perest after an dequate primary open-ing, a careful examination should be made for posable masteldites or intracranial complications

GUT L BOTTOM VID TOSE

Lewis, J. D. Depressed Nasal Deformities A Comperson of the Prosthette Values of Paraffin, Bone, Cartings, and Galfuloid; with a Report of Cases Corrected with Calfuloid Implants by the Anthon' Method. Am Otal Rissel b

Laryugel 913, xxxxx, 3

The uthor classifies the common types of depressed nasal deformities as retrousse nose, saddle nose, and depressions of the nasal tip. Other vari eties, which usually result from injuries, are combinations of these types

For the correction of external naual depressions by buried prosthesis, one of the following methods is suggested () subcutaneous injections of paraffin, () autogenous transplants of hone cartilage (3)

celluloid implants

Each of these methods is discussed in d tail and the discussion is supplemented by comments based. on the author' experience. Lewis describes also the technique used to void more or less conspic nous scar following the measion made for the intro-

duction of the masal proathesis By the oldest method of forming subcutaneous tunnel a transverse incision is made at the root of the nose corresponding t the point where the bridge of spectacles rests. This method has fallen into discerute for many reasons. In modification of it recently suggested by Frank and Straus the initial incision is made one eyebrow or both eye bros and from this point the tissues over the infraglabellar notch and dorsum of the nose are cievated a th specially designed angular elevators and cutting matruments. The sole advantage [the method is that the scar is concealed by the cychrons

Other methods suggested are those of Monks and Gilbes The technique of these procedures is d scribed and their disadvantages are discussed

The author's technique is described briefly as follows

A vertical incision is made in the lower half of the columna nasi, and its lips are undermined laterally toward the nasal vestibules. Then by upward cuts with a pair of small, curved blunt sensors, the nasal the is undermined and co verted into a bood. With the sam schoors, introduced on the flat, the bood a elevated and the tunnel dissection continued as far as desired toward the infragiabellar notch

By first packing the anterior nares with gauge cotton, the field is rendered amenable to sterilization Local anestheria is wholly dequate. By working through the soft tissues at the base of the nose the parts are easily manipulated. Therefore it is not difficult to follow the contour of the nasal docsum and, with a little cure, to carry the tunnel dissection toward the nasal bones without departing from th midline hence, lateral displacement of the prosthese is prevented. The support furnished by th tip hood prevents extrusion. The two or three sutures required to close the initial incision are well removed from the funnel containing the prosthesis The soft tusues of the columns promptly heal a thcent scar formation

A sense of cases are reported. The article is supplemented by many photographs illustrating the steps in the uthor technique and showing a number of his results A R HOLLEDON MD

Alliaber E. D. Headaches of Sinus Origin. Oir State 11 J 2013, 212 503

In cases of headache, sums involvement should be suspected when the patient has a cold which does not clear up in from four to ten days and when he has frequent colds Recurrent infection f the mucous membrane f the nose, throat and larynx by the bacteria in an infected sinus is comino cause f both recurrent colds and headache

OTTO M ROTT M D

Thomson, St C., and M'Ilraith, C H Mucocale of the Frontal Sinus. J Laryagel & Olel 023 XXXVII, 365

Fewer than co cases i mucocele of the frontal sums have been reported in the literature. Th authors report the case of woman 6 years old who suddenly while in prearently good health, became dury and fell forward and to the left. This attack was followed by frequent attacks of discinces m which she saw flashes of light. Three months later she complained of double vision, insomnia, and severe left frontal and temporal pain which was ggravated by stooping. The left eye became deplaced downward and outward

At examinatio the movement if the left eyelid and eyeball was found to be good and the fundus normal Above the inner canthus of the left eye extending outward to the supra rintal notch, was

well-marked, rounded, firm, and semi-fluctuant swelling. The anterior wall of the left frontal signs was slightly prominent but not tender. On transalluminated the frontal summer were clear. The roentsynogram showed a large left frontal simis with indistruct shadows extending into the orbit. The anterior end of the left middle turbinate was enlarged and there was bulging of the bulla ethmordahs. N rous was found

Operation duclosed a large mucocale extending behind the eyeball up int the frontal more Complets recovery resulted. William B S use, M D

Honarth, W. G. A Radical Frontal Stress Onece thon J Lars rel & Oled o a mars at an

I the ther' common chrome suppuration in the frontal sames as associated with supportation in the ethmoud, and a frontal sums operation should allow the complete removal of the ethmost cells if this is December

The operation described has been used in over encases A curved mession is made under the sunraorbital marsin and brought down in front of the

unner canthus on the side of the nosc The periosterum is increed in the same line as the akin incluon, and the personteum covering the roof and inner all of the orbit is raised. The pulley of the amerior oblique is then det ched from its notch and all of the otheral contents are deplaced out ward with the lachry mal pac

The sinus is next opened just above the lachrymal groove and the entire floor of the sinus is removed up the some orbital margin. The liming mucota is

daturbed as little as possible

With copper bought passed through the frontal duct and through the nose the bone in front of the frontonasal duct as removed and the operator may see a bether any ethmose cells are mounding up int the floor of the frontal sames or overlying the frontonasal duct

The ethmord cells, and if necessary the spherond,

are next ttacked

A new nesofrontal duct further forward than the old one is made. A rubber drainage two is inserted through the nose and the wound closed

WILLIAM B STARK, M D

Mackenzie, A. R. and Welle, E. D. Sercome of the Ethmold. J Am M Au pry lum The authors report a case of surroms of the th most in which there was apparent recovery after

roentgen ray trentment-one maximum dose, & ner cent of the erythema dose soo,ooo peak kilovolts, 5 ms with a 1 mm copper and mm alumium filter Improvement as noticed within twenty four hours. Six weeks later the patient was practically cured, but prophylactic dose the same as the first dose was given The uthors draw attention t

The comparative musty of surcome of the ethmose

The rapid retrogression of the tumor in the case reported and the return of 1300 (from light perception t normal vision) after one maximum dose of the roentgen ray (short wave length)

3. The rapid improvement in the patient's plans cal and mental condition 4. The fact that the short way denote common

ray did not damese the finer structures of the eye or the delicate diseased precons membrane.

The fact that so far as was revealed by a careful search of the literature, this is the first case of pparent recovery induced by the treatment desembed

The physical, clinical, and laboratory empleations revealed no evidence of metestants

Orro M Rost M D Dutrow H V Some Further Observations on the Etiology and Treatment of Maxillary Sinucia.

Ann Old Rivad & Laryagel Q 3, xxxx, 358 In Dutres opinion most infections of the maxillary sinus are of the excending type. This is contrary to the behef of many who in the past w garded the antrum as a reservoir into which per drained from injected frontal and sphenoid smoot

and from the ethmost cells. The author coucle MODE are summarized as follow 1. Destructive intranami surgery should never be resorted to until after the diseased antrauties been treated and sufficient time has alresed for the structures than the none to return to sormal

s. As no re infections have occurred following Calcivell-Luc operation in high the middle turb not and etamord labyrinth are left intact, this

fact disproves the theory of descending infections. In chrome empyeme 1th granuloma, thorough removal of the disease within the smus, adeq val drainage and constant ventilation are escential for

estrafactory results 4 Absence of deformity the preservation of physiological structures, and marked improvement in the general condition fully restify proper radical surgical intervention in this type of sime infection

MODTH

A R Housen, MD

Quick, D. Carcinoma of th. Floor of the Mouth Am J Racetyceni pag x, 46

Carmona of the floor of the mouth presents a definit clinical picture and should be easily recog-mised. The lesson begins almost invariably in the mucosa of the anterior half of the floor of the mouth and usually rust at the aids of the fresum of the tongue Its growth is raped. Mahanant growths of long duration such as are frequently seen on the tongue are practically not er found in the foor of the mouth I all of the cases seen by the uther the carcinoma was of the squamous cell type. The doease establishes itself deep in the musculature of the floor of the mouth and as the anatomical arrange ment I cultates extension the depth of infiltration is relatively greater than that of any other group mira-oral carcisomata I those cases of growths beginning t the side of the fremm of the tongue, extension to the opposite aide is rapid. This creates

essentially a double lesion, necessatates a more complicated course of treatment and fa irs wider hymrhatic dimensionation

A perchar characteristic of the docuse is the in filtration of the tongue from below upward. As this is not necessarily accompaned by extensive ulcration of the lungual mucosa until lat. in the course of the disease, only palpathon may reveal t. The nich blood supply and the movement of the tongue may

be contributor, factors in its spread.

Carcinomata unually area in the miscoss at the inner or largual side of the floor of the mouth, this probably accounting for the fact that the early retrosoo is mechal rather than lateral. Extension to the lymph nocks occurs often and early. The rub manilary nodes on the side of the primars growth are most commonly affected. Next in frequence of involvement is the jumplar node of the upper deep certical claim, eritying the curred by the processing of the property of

Smoking should be considered a contribut ry cause of carcinoma f the floor f th mouth Poor teeth and ill fitting lower plates are other sources of

constant irritation

Until recently the treatment of the disease has been largely urgical Pastes are not ell adapted for use on most surfaces. The various heat methods are incorrect from theoret cal point of view

The whor is opposed to the surpical removal of the primary growth in this group of cases is only small percent go of the subjects are physically ble to stand it. The mutilation of the operation is smally extensive. The fraums may cause more trouble than the half removes and the loss of blood for our rand growth in ... is remaining four.

fa ore rapid growth in y remaining focus.

The treatment of intra oral carcinomata should be considered, first with regard to the primary lesson,

and, second, with regard t th cervical modes. In the treatment of the permay growth unfiltered tubes of indium emanation re bound unformal throughout the involved area with care t place them well t the insists of the palpable infiliration. The tubes about the sometred that there is porter match one tube per cube centimeter of timor to mer. The gamma ray effect about from burned emanation is threet four times as great as the strongers crow first of he at high filtered produm t distance of rown first other this filtered produm t. distance of

bd 5 cm or high oltage \ ray t a distance of 50 and 70 cm. The tubes ha not been found it cause trouble as foreign bodies. The slough in th soouth may be more extense. than in their reposes as infection is more common in the mouth

In the treatment if the cervical is imphasizes conare in proceedings if a most The neck is treated this the Versy 1 and the lymph nodes in the destruction of the tumor cells and 1 stimulate the protects defenses of the body cells. I this mannor secondary extension of the chanses is combited and provided destruction of the home channels in after provided destruction of the home channels in public in I critical the secondary of the conpublic in I critical the secondary of the best while the control of the home properties of the control appears, a unlateral block dissection under local anneathens as done and radium emanation is burned at all suspicious points in the a round. If the disease has already periorated the capsule of a node or group of nodes, radium emanation is buried in these

podes bef re the wound is closed

I all cases an estimate of the result to be reason able beped for should be made before treatment is begun. If complete regression of the disease is possible th justifiable to use doese it the brint of terms tolerance, even at the risk of comaderable reaction. If n/p pallant rebel can be expected the patient comfort should be given first consideration and the dosage modelled accordingly.

Duning a fiv year period 1 a cues of carchooms of the floor of the mouth were treated. Then, three patients has been clinically free from the disease for periods ranging from eight to fifty, it omosths. The a erage length of time for the group was teents fiv and half months Of forty three patients given pullating relief eighteen are will him. From rant pollments at to the outcomes.

The author reaches the following conclusions

Carcinomy of the floor of the mouth is distinct chincal entity with peculiar therapeutic problems which render t unlike any of the other intraoral groups

We believe on experience to date maints us in d using interstitual radiation by means of unfil tered radium emanation dubes as the agent of boke in the tre-timent of the primary leaves.

in the tre tment of the primary lesson

3. We believe that the problem of dealing with the
metastatic extension of the disease to cervical nodes
is best handled conservative basis, with the me

is best handled conservative basis, with the use of combination of surgery radium, ind the X-ray 4. These conclusions are made with full recognition of the himitations of the observation period and of the number and type of cases treated.

JAMES C BRAFFERL, M D

Patterson N Disthermy for Malignant Disease
if the Mouth, Pharynx, and Nose; with Notes
on Seventeen Successful Cases. Brill J
o t II. 65

In reporting seventeen cases of malignust discuss of the mouth plangar, and nose which were and considered by databetmy. P. trenon states that the chance of obtaining: complete and fasting core a crellent hem the growth is small, superficial, and some datance from important structures, not hen the glands are free from observations of the structure of the struct

THROAT

Howarth, W.G. and Gloyne S. R. Unhealthy Tonalla Associated with Cervical Adenitia. Leact 9 3, cm. 20

The athors studied series of thirty four en larged tomals from cases with marked cervical admits. They summarize their findings as follows: 1 In enlarged and unbrulley toouls associated with cervical adentia in chalters the cheef hando-good changes noted were (t) a marked horsesson in the lymphood tasser and (t) leasons in the cypto-desquantion of the cystophenological characteristic content of the cystophenological content of the critical characteristic content of the content of the

2 E cry tonsil examined showed evidence of bacterial infection. Many different species of or gammus were found. The maximum number of species discovered in one tonsil was seven and the erage number three. The most common was.

the streptococcus

3 In series of toomis examined for the presence of pathogenes organisms it was found that 16 per cent contained bettern which ere virulent for the mouse. These organisms were hemolytic and nonhemolytic streptococci and pneumococci of Types I and I. This pathogenes group of cases above of I may be a seried of the properties of the rough pathogeness group (none an fourteen) that of the nope ablaseness group (none an fourteen).

t the non pataogenic group (none in tourteen)

4. The hemolytic streptococci varied as t. their

virulence in the mouse

5 B ctern demonstrated in sections (chief) cocci above that the infection rended 1 follow a definite path, at through the stratified epithelium (generally in the crypts where it is those it than on the surface) int the diffuse I implied terms then on the surface) int the diffuse I implied terms there along the munite himphates of the connective trains trahecular to the capsule and thence to the lymph tracts of the phary negal wall.

6. I a separat sense examised for tuberculous it was found that the guant cells were generally in the lymphoid tissue and rarely elsewhere

7 In tw cases, actinomyces like organisms were obtained, but there is reason to believe that they

were not true my fung.

From this study t seems probable that tuberculosa is only late fasterion, and that in the majority of cues the crivical admits is due t septia shorpton from tomak continuing popular orgunisms such as the streptoccus. This view is borne out by the fact that when the infected organisms are moved by operation the affected glands frequently subside.

Orro M ROTY MD

HECK

Benedict, C. G., and Benedict, F. G. A Permissible Breakfast Frier to Beval Metabolien Messagements. Besses M. & S. J., q. 1, clrxxvis, \$49

The rapid dvance in the use of besal metabolism measurements as an index of the plane of vital activity has remitted in the study throughout the United States of probably not less than soo or 300 nersons seed d y.

One discomfort experienced by the subject of these tests is the necessity of abstaining from food completely for t el hours. Often he has sema ton of heurer and frequently experiences families.

The psychological attitude toward the test small therefore be greatly bettered, if it were possible to give an amount of food which would temperately satisfy the appetite and yet would not stimulate the metabolism to such a degree as to wints the hash metabolism determination.

In a study of the influence of light used upon the metabolism Du Ross and his associates found that the metabolism was essentially the band level two howers after the injection of need on tiding a small quantity of protein and includproduce a sense of safety. The food elements the theory of the same of the safety of the same the engine soch as levellow and soone. Fats are the least standarding and fortunately are the class of satrents that most freely produce a case of safetrents that most freely produce a case of safe-

The meal decided aroon consisted of

t cup (soo c cm) of callene-free collec

16 mgm of succharing

g m of potato chips
In this meal there is ery little protein, so ketos
segar an appreciable proportion of fat, and a total
calorific value of about go calories, depending upon

the percentage of fat in the cream. The ultima report the details of the study of the effect of this duet on two normal subject. If it can clinical that in normal persons a near of the his type is a thoot any measurable safturace provided the role on extent at least cone hour before the tests are not. However, as it has not been demonstrated that even terms small amount of food does not further stondist the absormally high metabolism obtaining mention that shows the student of the endocrean planck, tests hold be saide along this has before the hight breakfast as pen in cases of pathology.

from the light warm breakfast will lessen the subject discomfort and uritability and thereby lead to more accurate basal metabolism measurements

thors opinion the euphoria resulting

A W BREAK MD

Brown, L. E. The Relation Between Thyrotosicals and Tonellar Infection A Old Elast V Largest 923 xxxx, 267

From questioning practitioners whom be believed to be in a position 1 give information, the ather concludes that comparitively little titentow has been given it the possibility of relation between goaler and formal infection and that it is greated that the tomal information and that it is greated that the tomal is no more help to be the form of infection than any other part of the body such as the muses, tech, and gull bladder

A survey of the senat hierature relating I the subject seems t underst that those he have a vestigated the connectance of gouter and infection of the tonach incluse t the belief that in many case decased tonach may be directly responsible for gotter either sumple or exophilatines. Brown arges that threat operations gree particular attention to the state of the thyroid gland in all cases f inlected topols and that practitioners treating thyroid duorders bear in mind the possibility of an exciting factor in diseased tomals.

ARTHUR L SEREPTER, M D

Frank, L. W. Surgery of the Toxic Thyrold Kentucky M. J. 913, xx1, 306

In the author' opinion, the basal metabolam is a nont valuable as in the diagnosis of tone poter but not an index of operability or the postoperature raction. X ray treatment is not without diagnosis death may result from the raction to it just as after operation. The best treatment is a graded operation performed with the potient in a state of analysis; induced with mirross onde oxygen and the local use of processing. Agracy L. Saxarrian, M.D.

Been, E. P. Cardine Disorders Accompanying Exophthalmic Golter J Am M Air 923, hxx, 683

In cophthalmic goter the treatmotors dilatation of the artners and venns of the thyrod about current the blood flowing t the neck and increases the load on the heart in the same manner as artnervenous normans, while the heightened carges normans, while the heightened carges normans, while the heightened carges consumption causes an increased muritie volume flow of the blood which may be from § to for cent greater than normal. The increased work thus thrown on the company of the carges of

Lahey F H. A Tachnique of Thyroidectomy Surg Gyac & Ohd 9 3, XXIV, 8 3

The the describes a technique he has used in several handred gotter operations which gives better exposure of the field and greater safety than the usual technique An incason is made just through the kins, except in the middle where the carried one it the simulativation and attempting and one of the internotity real and attempting the safety of the safety without damage got the larger version of the measure without damage to the larger version on

the anterior muscles of the neck. The prethyroid muscles are then cut between clamps and reflected powerf and downward. The stemomasted in desected free from the prethyroid muscles are free treatment of the prethyroid muscles are upon poles as well exposed so that it may be ignified in full view. After division the thyroid a turned downward for clear posterior exposure to prevent injury of the recurrent larguage nerve and the parathyroid.

Annua L. Senzerius, M.D.

Hubbard, R. S. and Webb, C. W. Acctonuria Following Thyroid Operations. Ciffen Med Ball Chiton Springs, N. Y. 913, 12, 85

The authors give the results of studies of the acctume in the urine in a few cases operated upon for gotter and compare them with the findings in

cases f abdominal operation

They found that the use of introns onde oxygen if the induction of anesthean had no effect on acatomus, but that the migestion of carbohydrates tended to reduce it Glucose given by rectum reduced at but did not prevent it. They believe that thyrodectomy has a specific effect in the causatio of acctoniza as the latter did not always follow other operations. They accept the view that acc toming may be the result of increased secretion due to the control of the control

In the few cases studied the acctonuma approximately paralleled the metabolic rate. Persons with go ter frequently have a low carbohydrate reserve, and this starvation increases actonuma. The degree of acctonuma vaned directly with the metabolic rate and roughly with the activity of the glands as above how section.

The conclusion is drawn that the two factors influencing accounts after gotter operations are an immediate increase of thyroid secretion due to the operation and a lowered carbohydrate reserve.

E A BAUMMARTOR, M D

SURGERY OF THE NERVOUS SYSTEM

Brain and its coverings; cranial nerves

Rosenow E. C.: Specific Serum Treatment of Fradensic (Lethardic) Encephalitis Further Results. J Am 11 Am 0 3 km, 583

A somewhat peculiar streptococcus has been isolated from the infected tomals, teeth, and paso phyrynx of patients suffering from various forms of encrobalitie. With this streptococcus, typical symptoms and leaons of encephalitis ha reproduced in animals, the type of disease induced experimentally often resembling that present in the patient from whom the attam was isolated In series of immupological and other experiments it has been found that while the amous strains are of ion virulency they have decided antiserise power With the dead becteria, rabbits ha e been successfully immunized against encephalitia. Agai tination and agglutinin beorption tests th convalencent human and hyperimmune borse serum show that most of the strains molated to immunologically The serum from rabbits and horses ldentical immunued by repeated injections of increasing doses of this streptococcus has been found to protect rabbits and mice against properly gauged doses of bomologous and immunologically similar beteroloroos etrum

The serum used in the cases reported was a muture of the serum from t bones negeted with four strains, one strus from the threat of priteent with letharge energhakus, one from the spaniflued of patient ith energiabilitis and maxical is oversement of the menungs, one from the threat of a patient having energiating with heaving, and one states the menungs only letting one of energiations are supported by the case of energiations are supported by the case of energia-

descriptioning dose, the serum was given miranuscularly intravenously or intrasposally Reneficial results were manifested in various a 14, depending on the type of the disease. The effect in two cases ere studied Eighty five patients improved and forty three showed no appreciable change In two acute cases it as the opinion of the attending physicians that the symptoms were agers ated following the injection of the serum Of the group of patients who showed improvement three died after temporary benefit. The duration of the disease at the time of scrum treatment, deter mined in seventy-one cases in the group of patients a ho derived apparent benefit, ranged from ta days to three years Of the group of forty-five patients m whom no beactional effects were noted, nineteen died Most of the fatal cases were acute and cry severe forms of the disease and, in many inadequate amounts of serum ere given

The time when improvement began vamed on alderably As a rule it occurred within twenty four bours after each injection, but in some instances. especiall in chronic forms of the disease, it did not occur until fter recovery from delayed screen reaction I most cases in which improvement was apparenth initiated by the serum treatment, it continued thereafter in some, the gam was tempsrary. In fulralization bulber types of the document the serum did not stay the process. In cases of long duration, anatomical changes may has taken place which precipded the possibility of benefit In acute fulninating cases the reasons for lack of amprovement are obvious, but in malder forms of the disease re not so prayent Serves of teeth and tonnis may have been responsible or the explana tion may be found in the fact that not all of the strains are immunologically identical. The author's experimental studies indicate that the progressive nd banging character of the disease the exacting tions, and the so-called seguele | re due to an active infection by a streptococrus which has peculiar peurotroric and other properties, and that unsued may be favored by the presence of primity for of 1 lection

The results obtained thus far are encouraging and bout what ould be expected in were of the results of protects and other experiments on animals, but less much t be accomplished

Jacobi, II G A Case f Cerebral Cret be set Infant. Am J Du Child 9 3, xn 415

The author reports the case of an infa t year old he was taken modellen) if his spells of vosting and restlements and winkeard from skey wit state constitute and recessorably enabled by interest of the constitute and recessorably enabled to the constitute and recessorably enabled to the constitute of the constitution of the

Actions revealed as excessive amount of critical paral fluid and marked flattening of the convisitions, especially over the right benealth the posterior bern of the lateral vertical or the properties of the properties of the convergence of the content of the content of the content of the content of the cyst proved find as found. The contents of the cyst proved to be charfy president. The hyperprocume may have been a part of the terminal condition or the result of present of the cyst president of the cyst president of the cyst president of the cyst president of the cyst province and the cyst president of the cyst president of the cyst province and the cyst president of the cyst president of the cyst province and the cyst president of the c

Bruns classified bruin cysts as () congenital () triumatic (3) parantic, (4) those resulting from bruin noticining and (5) those of unknown origin. The a thor behaves that his case belonged to the group of congenital cysts. The content of the cyst proved it is of the proliferative type.

WILLIAM J PROMETT MD

Parkinson, J. P. and Broster L. R. A Case of Carebral Abscess in Child Laucet 9.3 cci

The case reported was unusual because the patient was only 4 years old and because the abscess was secondary to lung pathology and eroded through the skull forming tumor beneath the scalp At first there were picksonian co vulsions beginning in the left arm, but months elapsed before headaches, vomiting choked duca, and reflex changes appeared The postmortem examination revealed an abacess of the right pre and post rolandsc areas, is in below the cortex, smaller abscess on the medial aspect of the brain, and slight internal by drocephalus. The lungs were emphysematous, and pus was present in the smaller and lower bronchioles Staphy lococcus anreas was found in the pus from the brain and the bronchioles. P R BILLINGERRY M D

Dendy W. E. A Method for the Localization of Bram Turnors in Comstose Patients the Determination of Communication Between the Corobral Ventricles and the Estimation of Their Position and Size W thout the Injection of Air (Ventricular Estimation) Surg. Gynec 5° Ohr 9 3 xxvv 64

A nethed of localization offered only as an entergroup procedure for use in the case if patients in the last stages of intractable presents, compared to come, consists in estimating the sur-position, and intercommunication of the ventricles and occasionally from the cateria magna At all other times, at there is doubt that it the location if the times of their unique that it the location if the times of their unique is the present method of certainly possible to the condition of stronglass.

The position of the lateral vectories can be determined by ventrousing pometries their use, by measuring the fluid in the ventroics and their communication with each other by injecting d_ into one ventroic and testing for the onlice class here in one ventroic and testing for the onlice class here in a state of the control of the ventroics and always make to be desired, in usually sufficient it leaves much to be desired, in usually sufficient it leaves much to be desired, in usually sufficient it.

or the crebellum as the probable seat of the timor. The sathor approaches the ventricles posteroidy through small perforator opening in the occupied appear and present of the samill, as for cerebral pseumography. The occupied region is chosen because the largest part of the lateral ventricle, the vestibles is most accessible from this point. The vestibles is most accessible from this point. The vestibles is most accessible from this point. The vestibles is most accessible from this point.

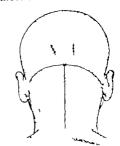


Fig. T show the positio f bilateral entricular punctures A certificiar measure is outlined for orientation f the puncture, other shightly oblique or vertical measure can be made.

dislocated than ther parts of the ventracle, and the vestibules and postern horse are farther spart and less equally occluded by the same pressure. By alteral puncture of the antenor ventractar horns has been done, but the antenor horne are smaller and more difficult to enter dislocation and collapse of both is more highly because they are closer to gethe and more equally affected by pressure directed from the safe that of openciure is nearer the middles and in more vascular area. Lateral puncture in the descending horn has been done of the left venturely a hardy to considered its came of the introduction and the process of the left venturely a hardy to considered its came of the introduction and the process which the peedle must traverse

Normally the needle enters the ventricle in a proper direction at given depth Definit lateral displacement if the ventibules indicates the location of the growth and a presumptive evidence of a timor in the posterior half if the cerebral hemisphere cause such pronounced halfocation. If the ventibules A ventricle which is hydrocephalic will be more easily reached than a normal ventricle.

The lateral ventractes, which vary un different percent, are paperately of equal are in the ame person unless there is some lesson to cause inserting the control of the correlation of



Fig. Diagram with lateral ventricles outlined indicating the approximate course of the entricular needle

standard quantity of applicated field from which to draw combiness Aspectation of more field would usually require the injection of air to prevent too great regative pressure. A small ventrate on one sade will eliminate a tumor in the posterior fosse but of unitarial or feels hydrocephales of controlled to the control of the posterior fosse to other side. A unitatival hydrocephales does not be extracted by very small the quantity of the controlled to the controlled of the posterior fosse that the extraction very small the quantity of the controlled of the controlled of the controlled of interactual pressure only roughly. From a normal or small sized i entirely the considerable verticate any not give more. After the relief of pressure, the important factor is the residual quantity that can be appareted.

Free communication of the re-lateral ventricles is undicated by the injection of or a come of indepocarmine int one lateral ventricle and its experation from the other. If none of the dye passes int the contralateral ventracie (obstruction present antenor to the aqueduct of Sylvius) there tumor in the anterior or middle rather must be than the posterior cramal fosse. If both ventricles are dilated and the dye peases freely to the opposite ande, the tumor all be in the posterior fount, except in cases of paneal gland tumors and long standing cases of hydrocephalus is which an artificial communication between the lateral ventricles has resalted from pressure strophy of the septum pelloci-

Indeportuning is not firstating, but phenokulinphonophiblaise may cause very decided intrabalha obstruction (usually timne) at experience of the squedict of Sybrus all prevent the dye in the hieral venturies from appearing in the outerns measure of the first three the contract of the measure of the first three the threshold production of fixed rather than to obstruction, the dye will pass fresh. This communication or obstruction can be determined by aspiration through lumbar postness, charmal poncture, (A) or a poncture), is operationable of the clateria magna. Because of the clateria magna may be also in stocky opposed to innihar poncture in cases in which are the class of the clateria may be done unless pressure has been raise-old part through poncture, and even then Dasidy would be done unless pressure has been raise-old part through poncture, and even then Dasidy would be form the poncture of the poncture of the poncture to compare to do the poncture to the poncture to the poncture of the ponctu

The author reports the case of lear puters with brun tumor who are counties as demons t the beautiful. No information leading to location of the tumor could be obtained by enamentation of the tumor could be obtained by enamentation or from the history gave by forestic astrainters are three of these course the estimation of the estimate capacity above made the localization possible in the fourth case both lateral ventricles were so reduced that only drops of find could be obtained from suther side, but the worthcles are so definitely dislocated toward the right that the purpose was localized to the left corthoil hismoshers.

The method is dependent upon a knowledge of the ventricular typography and ability precisely to reach the normal entricle and to interpret the results of punctures in terms of intracramal pathology

Causes of error are

1. The great variation is mire of the possibilities

1. The great variation is mire of the possibilities

1. The great variation is mire for or five times
the size of those in another. Find quantities may
ary from t. 4 cent.

s. The position of the tip of the posterior horn near the surface of the brain. This may suggest that the ventrade is dilated.

3 Bilateral hydrocephalos may de-cho frea obstruction at any point between the forances of Mouro and Magendre, conditions in both the middle and the posterior feese. A high percentage of temors are in the middle feese. The percentage of temors are in the middle feese. The error resistion meaning proup of tumors of the passal last special properties of the properties of

In the presence of bilateral hydrocephales the communication of the lateral ventricles, crebellar exploration as possible. With the dye test, practically all tumors of the posterior fossa can be found at operation.

In the cases of comatose patients controclar estmation may be used to entiade timose from other intracrumal lessors simulating tensor. The author reports case of come with chronic meaningths and acut hydrocrubalm.

Vestingular estimation requires bitle time is relatively simple, easily performed, and relatively harmless. The principal danger to life is in puncturing as into entirellar tumor and thereby causing the trace entirelar benearthy? It most important defect is the possibility of incorrect localization. Here the nethod blood be used only in energrenous in which the more precise methods (much as certified postnographs) may surrywise the pressure symptoms less the intracrimisal tension is high and valua ble time outle the jost in mixing them

WALTER C. BURER M.D.

Hashimoto, T. The Absorptive Fower of the Subarachnoid Space (Uther die Resorptionalischig hat des Subarachnoidealiscume). J pen Zischr f Dermidd. Urel. 9 xmi, 63

Numerous fin estigations hat a been made with regard to the passage of substances absorbed in the blood int the cerebrospinal fluid, but the bacopine power of the sub-machhood space has been tridied by only a few workers.

The author trempted to demonstrat the passage of all almo of per cent phenolsulphonephthalem and 5 per cent indigocurams solution from the blood to the cerebrospinal fluid in animals (guinea pigs, rabbits, and puppose) and in man, but obtained only negative results.

In other annual experime to he mjected the same dye stuffs into the subaracheoid space and endexword to follow the process of absorption by determining the time when the dy appeared in the urnse. His found that this occurred somewhat later than after intra-enous injection.

In investigations on himan beings, be injected from to 64,5 cm of phiblician in alliance 6 per cent solution. About ne half hour after the inject ton all of the subjects compliance! I transfort paraly as of the lower extremities and phenomena of unitation solves as omiting and headside. The dye did solv pipers in the urine until after from mue to forty murities. Hassingson 62.

Limer II and Nixon, C E. Dyspituitarism and Epilepsy Med Circ A Am 923 1, 471

The authors report as cases of galaxya amocantic this marked evidence of disturbance of the endo-cross glands, primarily the primitary or pranothers as no five period of from one to one and one-ball years, with attributely beneficial results on the accusive and the state of the control of t

The author consider t unportant for the future of these patients that ensuing endocrane abnormalises be recognized and that determined effort be made t extreet them. They do not intend t suggest that all cases of epilepsy not due to beain tumor or syphilm are due to, or associated with, endocranopations.

An essential in all gland therapy is patience. The treatment must be continued for months sometimes

even for years no results can be expected from haphazard treatment for period of a few weeks. Warres II Nastan, M.D.

Bastianelli, P. The Frontal Method of Bchloder Durst Without Exenteration of the Orbit A Contribution to the Consilbitty of Relative Exploration of the Base of the Brain (Il metodo invalue & Schloder Durst sense centerate dell orbita contribut alla possibilità dell'explorazione tristà della base del renno). Arch da 4 chr.

The author reports the case f boy of 15 years whose condition was diagnosed as due to a left retro-orbital endocranal tumor of probably oscorous organ. From the symptoms it was behered that the tumor was parachisametre, hear the spex f the orbit, and that it compressed the optic nerve

The Schloffer Duriel frontal method f approach was chosen not only on account of the stration of the tumor but also because this method exposes the per I the orbit In 9.3 France performed hypophysectomy successfully by the fronto orbital route the frontial strip or this case was somewhat smaller than that of Schloffer Durit and had a lateral pedick. Ne extraction was done.

After measing the dura Bastianelli was able to explore the optic nerve, the chasma and the antinor sells turners in full lew. Exploration of the left lateral part of the sells suit the finger caused a sport of serous fluid. This contained particles reembling the remnants of the walls. I a cyst. A deep harmorrhage then appeared, and as the patient became of aboute, the operation was concluded

On the eighth day after the operation the temper ture began t me. The bon flap was therefore opened up and the region lavaged with physiological salt solution. On the fourteenth day signs of me nango-corribables appeared and on the eighteenth day the painent died. A topay was not permitted.

Bastunelli considers the case very interesting not only because of the survival of the patient for eighteen days, but also because the operation described permitted emboration of the base of the brain from the interior surface of the sella turcata forward.

WAR PRINCAY

Paterson, D. Tuberculous Meningiria, Pr. cintener 915, cz., 43

The uthor describes tuberculous meningitis as a mainary tuberculous infection of the nemipes having its origin at some focus within the body. The brouchial glands were responsible in §7 per cent of the cases straked, and the measuremer glands in a per cent in op per cent the image were also invol ed, and in 75 per cent the spices and other becoming origin.

The bronchal glands of children are infected by the mhalation of human bacill, while the meanteric glands are involved through the saftowing of contaminated food. In the author, opinion the bacillis of human tuberculous as responsible rather than the bacilliss causing the bovine type. The general miliary infection may follow an infections discass or be brought bout through confinement in poor surroundings and by improper or a maminous fond

The diagnosis must be made from the history of an insufers oncert, driveness and consultation with occasional emess. At times there competition with occasional emess. At times there competition as the protein hyperacticists, a present. The conducton may be differentiated from exceptibilities and policomychist by its owner and general pacture. Represent digital posteriore may be present; and in doubtful cases of manted laboration as exploratory menuous should be considered.

WHINDUS I PERETT M.D.

Jenkins, G. J. Ot the Maningitis. J Largered & One. 9 1, 2771111, 291

By the term "menungita is to be understood an inflammation of the menunges of the brain and the spaced cord produced by a mono-organism. If inflummation of the mediagra aircs secondarily to and has to septic therate of the car it must be regarded as a septia, menungital bether or not an organism is found in the cerebrosphilal fluid.

It remains for dedocrate to recognize and determines (1) the septer affections of the car that proceed to excuse institution, in order that this intra-cranial complication may be more often disposed as an early stage (s) the suppriors and signs secondard with the early as well as the his at greatest with the early as well as the his at great the disposaries (s) the symptoms and again that illustrate the reprison of practical intensity of the inflarmination and the probable limits, if any of the affected area.

The causine factor is colony of infero-organtions stantist other in the set asset closely related structure infected from the ear or the iscentified structure infected from the ear or the iscentified statem stell but the pathological and disnot green reas of the condition depends chiefly on the result ance of the subject t the organism and its torm. There does not seem to be any definite relation becent the nature of the organism and the chieful

progress
Up to certain point, incatagits of irral origin may be compared the abscess formation. In this phase the infection is extending toward the rectinges from the ear or a part infected from the ear.

The most simple form of meningities is an extra dural becase. In this condition only the order in faces of the dura may be affected. Obvious meanings of the substructured region may occur accordants t ear thesee in the absence of macroscopic endence of disease of the dura mater.

The study of the changes in the certebrogoust fluor in meninguia so of the timost importance. However while these changes has a bren regarded as flording the most reliable information as it the nature and stage of the combine there is reason to believe the tither are reliable only when considered in the changed features.

The character of the changes in the lumbar pend ture fluid is due t t chief factors, viz the mis of maximum infection, and the stage tracked by the inflammatory process. Jenkins experience has led him to believe that differences in the character of the lumbar puncture field depend far more upon three factors than upon the effect of any perticular hacterial tarin.

In all the cases of infection of the meanings of the middle feasi that ha a come under the author's observation the path of infection was through the roof

of the middle ear

Infection of the membras of the posterior feats may occur by way of the labyrinia and through the posterior will of the antisem or may be secondary to apply throughout of the lateral sums. In the cases studied memoreopeasily be the suffer the in-fection passed from the lab ponth to the membras deage the elements of the sauditory serve and to the deage the elements of the sauditory serve and to the

internal auditory mentrs. The character of the early ymptoms and seem depends first upon whether the primary safection occurred in the casterns or in the trabectized sub-arachinoid space, and second, upon whether the in-ason is in the posterior or mixella forus. Pressry infection of the casterns ponts can occur only through the laboratish.

The property of the control of the c

Inflammation in the transculated part of the subarachaoid space usually specials comparatively slowby and the early symptoms are therefore more those of local than a specialize inflammation

It is the cuty sings of the substrachood type of leptomemorphist hat soot often purse surrecognized probabily because oxidential pay too little attention to patient complaints and rely too much on the phrescal seams. Headachs, especially when host and in the affected sold, should be considered of great superficience even when it is unsurported by other symposium or ugus and hether the nor moch

tion is acute or chrone.

I the author's experience affections of the sub-archaood space in the posterior foun his c shi plens secondary to literal arms thrombons or 1 ab-arcs (subarchaood or intrascrebellar). It these conditions also the symptoms of inscangible are newest until the disease has reached the cisterns.

Dogge

The statement so commonly made that septic meaningths should not be diagnosed usless the organ less can be demonstrated in the creebournast find in whoth erroteous and diagreess

Jenkins gives the symptoms of infection in various locations of the skull

I the operator treatment of leptomenangua whatever the stage it may be regarded as fundamen

medallary lenous

tal that the causative car disease should be eradicated as completely as possible whitever other additional procedure is dopted. Such treatment should be sufficient to bring about a satisfactory result in all the milder affections of the meninges (seen gute de transage) when the organisms have not invaded the rabarachoose region N doubt many cases of this condition are unrecognized, particularly because all symptoms are often entirely cleared up after the ratical operative measures usually employed in the treatment of ear disease

When it is clearly evident that the infection has inveded the subarachnoid region, draining must be established speedily at the point of maximum in-

icction

In a primity infection of the casterna pontis the course of the operati procedure should be along the track of the infection, us through the labs n th to the internal auditory meatus. It is important that all bleeding be stopped before the internal

auditory meatus is opened The uthor describes in detail the technique of operation for infections in the cistern remon the trabeculated subarachnosd region, and the later stages of leptomenium is

The conclusions arrived at from the study of this espect of other meningities are as follow Il most enden or t recognize leptomenments

at the early stage, when the infection is local and there is evidence f region of maximum intensity of inflammation. Treatment t this stage has fair chance of success

There is an intermediat stage of the disease the treatment of which is still matter of investigation and experiment

3 There is stage in which surpoul aid is im-

pounble A detailed report of five cases of leptomeningitis successfully treated as made in the Journal of Lary telegy and Otology in o Three additional

cases are recorded here Cast R Storver M D SPINAL CORD AND ITS COVERINGS

Kerppole, W. I the Retention of Sensation Utter the Secral Segments of Value in the Differential Dragnosis Between Extra and Intra Medallary Spenul Cord Lesions? (Ist die erkalten gebiebene Semabilitant der letzten Salgelergenent ein differ entultugocetarine Untermindungmarrimal sauch en extra und miramedullaren Ruschenmarksaffek tronen?) Acie med Scand | 9 3 hrs., 527

A study f large series of cases of stanal ord discuse will reveal the occasional ret also of sensatio over the sacral areas when there is complete loss of sensibility in the rest of the trunk. In other sords the impulses from the caudal and of the body have escaped the interruption which has involved all other sensory impulses. This phenomenon sometimes appears a cases of Brow Sequend paralyses. It is probable that in the cervical region impulses from the sacral segments, after crossing within the cord pass up in paths separat from those from the lum-

bar and thoracic segments. The arrangement of these paths must be lamellar

The author cites several cases of extramedullary lesions which exhibited this phenomenon and con cludes that such retention of sensibility is an important differential sign between extra and intra LOYAL E DATE MD

PERIPHERAL NERVES

Lenis, D Some Peripheral Nerve Problems. Ber to If 5 5 J gas citaxvui 975

The problems of peripheral nerve regeneration abould be approached only by regarding the nerve as conducting bak in the neuromoscular system the other links being the nerve cell, the motor end plate, the penterminal network, the muscle fiber and the sensory disturbances following nerve section The chief problem is t find which of these elements most often fash in the thempt at nerve repair

Most striking in the distal nerve segment is the absence of gross evidence of trophy Mychu Childer changes seem t be secondary t peurofibrillar changes, the myelin becoming irregular i outline and broken up into fragments with round eads The neurofibrille become thickened, irregular in outline, and granular and break masses and granules. These changes are describera-

At the same time regenerative change begins in the neurilemnal sheath. The neurilemnal nuclei show mitotic figures and the protoplasm increases in amount and is displaced int the lumen of Schwann's tubule to he between the masses of mye-In this manner the so called protoplasmic bands are formed Similar bands develop in the proximal segment. The protoplasmic hands from the two segments units

Without these bands nerve regeneration cannot take place, for t is by this mechanism that the developing neurofibrilla of the proximal segment are enabled to reach the dutal segment. There is controversy however as to whether such fibrille be within the bands or merely bearde them

From the foregoing facts t is seen that a rise que sess of successful pempheral nerve surgery is th

ccurat appositio f the ends of the severed perve The motor end plate of the higher vertebrates ma fiattened, branched termination of the neurofibrillar substance of the nerve fiber of which it is the end organ, and may be attached by collateral branches or represent terminal branch of long nerve fiber It is beneath the surcolemma, at which point of entrance the nerve fiber seems t lose its neurilem mal and mychn sheaths. The end plate overfies the beaped up sarcoplasm of the sole plate, and between them is the fine meshed, periterminal network which connects the end plate and the sarcoplasm. This network disappears after degeneration and is probably regenerated by the neurofibrille

The fibrilie of the end plate degenerate in much the same way as the neurofibrille proper and when the resulting granular fragments had disappeared the aucki of the sole plate become relatively more distinct and undergo am totic cell diction

In serve right it is noted that the isomofibility of the terminal portion of the serve are represented in extex of the number needed. There is no exhere it is flowed by the form of the portion are dra at the terminal portion by in hermoticity unbrance but there is exclose if it the portopisms by it is because the the protopisms by it is bood until Developing threat has in secromous growth energy along the protopisms of the portopisms of the protopisms of the protopism of the protopisms of the protopisms

All crickse 1 brates to 1 if easy acress of the protople mic band to the divide segment; ferred the regiment is no councilibrille. If past the regiment is no councilibrille. If past the regiment to the dit lend organs and that the principal problem of new sustain them. Ill concern the removal of sour traves on them to make the removal.

My lin my be laid down by the ras coloralers in any pirt of the neuromous alar as tem, and it pper case tasks ten complet nervice testoration. The set of triapyl 1 it nervices tasking has not

heen ity accessful probably her use of sea tissue from those

Music hunger following nert section 1 kindy simil 1 those in the data service segment Reyn tertains secret t begin before degree in Compilet. Loss of seight is count in finding. Not all of the fibers become strengther and some of them to Ingred by (it is what an invelocation there is the property of the system of the secret than the second of the sec

The amount of muscula troph vanes. Thus change has been ascribed to exhau tion following abrillary t it hing probable this t increased per meability t alt The muscular t toking aries In degree amount and location in the mustle. Disuse has also bee regarded as the use of trephs es idence of this bear seen in the trophy in cases of canvalgus us high olunt ri disuse is necessitated by the pain Again trophy has been ascribed t venous at us (seurop rabite hypersusual as it noted a behamic palsy stret hing of muscle does not cause traph (in perimental simils) on the contrars bypertrophs result because of the loss of tone and is not affected by posterior rost section I rom these I at the a thor concludes the t the use of rigid plint t & paraherd muscles is not d the La gles believes thit it is mearrest r that paralysed muscle is overstretched by

if unfaponisi.

Construction of pers if bot sufficient to cause form to does not seem to interfere ith the rapid ret in of function, even following months of muocular dispre-

The author discusses II d' classification of cutaneous sepublicy Protonathic sensation (phy logenetically the older) includes the conduction of mun and the extremes of temperature. Epicotic sen sation includes tactal localization and decrimona tion and the minima of temperature. Following perve section the epicyrtic annutbetic rea is always greater than the protopathic area (spatial dissens tion) and ith regeneration the protonathic sen mation encroaches upon and obliterates the area of total ananthesia long before the return of era Cribe sensation (temporal dissociation) Pollock has show that the return of prick pair 1 the border of an appreciate area is not of uself in Indication of return ag protopathic sensation unless (is accompassed by return of t ctile sense the american follows g pers section pever extends completely over the area of 1 upplied by that nerve but is entrouched aron by adjacent normal fibers which m a account for the seeming return of prick pun I pictific sensation is much along in returning and may bever fally re appe

II) persylbent following nerv injury is not common, but may be a strengthy pushful. It meath follows injuries to the rechain and internal polytical service such as incomplet distance or neutral. The most const. I become justice needs in neutral input fixed to that reprehanced but may be conputed to the such as the control of the conbin the control of the control

or a mottled blank red

i oldowing nert setter and after the return of sers ton. I may degrees of moreilar power and north. Frequently it is found that the response of the tool ad it movels as a cellent, but that co-sendnation in prior 'hack failmer movel be due t. Deland of afternit stimula from muscles, tendons, and want.

The greatest success in new settening follows earl primary sware the an itempt to restore to nearl as possible the pattern of the divided new P. R. Bearwager M.D.

Gullet P. Let Paralysis of the Unior Nerve

Parabase of the alms sees on y ppear many cars after a fracture of the ternal coods is of the

business. In case reported by the athor that of a man of 4% years at del not develop until forth four cars after fracture of the elbox. The paral was in caused by the ularar valges pro-

duced by the fracture, the nert being stretched over the summit of the oleogramous and irrusted. The aim of operati

tors the carrying angle of the rm so that knaking of the nerve and its critation by the electrasion. If he prevented Supracond for cusations detecting its sample method of obtaining the result. Recovery from the purply us as more rapid the earlier the oper tools in performed.

N. Raccess

**N. Rac

Helle: The Surgical Treatment of Sciatica (Zur chrungschen Behandlung der Ischias) Denische Linde f Chu o chru

While theumatic scratter and that caused by disterbances in the pelvis are as a rule best treated by concernation measures scattics caused by trauma and local pressure due to inflammation usually requires surped treatment. In the author's openion, such local disturbances are more common than is generally assumed and often are seconted as the local changes in the near due t chrome inflamma, how

The inflammatory constricting processes consist in a thickness of the episcentum the count of inflammatory rodates, or extravisation of blood int the so-called intra gard space and lead trees are found following indirect as well used rectriaint ones. They are found following indirect as well as direct trains. They may follow polling or sprain or furunculous of the gli teal repos or he or utrem time. Petre integers are frequent causes which it

first are often overlooked

In four cases idiators of the ena com tans was found it the level of the scatact formers. When us flammatory diseasons between the under the level may be particularly high. I one case an anomalously most of the cases of the pain. Open injuries of the scatact never caused by believate are not as a case of the pain. Open injuries of the scatact never caused by believate are not as a case of the pain. Open injuries of the scatact never caused by believate are not as a case of the pain. Open injuries of the scatact never caused by believate to not one of the case of the pain. Open injuries of the scatact never the pain of the

The operation for the rehef of sciatics should be performed it that it where the anatomical change at be expected. Resection of the lemony terminal branches by Stoffel method was successful in only one of four cases. As a rule it is not applicable.

In scatter of the nerv trunk the changes are found charly slow the fermu. Therefore to a here that the nerve should be exposed. Thus shows by making an income from the sacrum t the greater to chanter parallel with the plateal fibers. It is mecessary to have free accessability to spare the muscles, and t obtain good hermostass. The in muchan here trunks must be separated for a distance of cm and freed from their selbesons to the spiceurum. After this the nerve does not require special covering, as the musculature, which has been specially selbest and the special selbest as possible her amonthly around t

If the seastes is of the roots resection of the roots is necessary. Hade resected the fifth bumbar and the fint, second, and thard sarrel roots, one after the other without harm. In the case ! patient whose leg had been amputated he resected the second, thurd, fourth, and fifth lumbar and the first and second sacral roots. Exact neurological findings are necessary before root resection is done.

Lange's injections may precede the operation.

If they are to help, they must be massive, consisting

at first of the injection of from 50 to 50 cm of a 5 per cent no occasion as dution into the nerve trunk in cases of severe pain small amounts of per cent sol too are indicated. Later from 100 too com of physiological sait solution may be used. These injections may break up the adhesions bet een the individual trunks A good result indicates the preence of such adhesions and that neuroly six may be beneficial. Humaway (A)

SYMPATHETIC RERVES

Muller G P Surgical Relations of the Sympathetic Nervous System. Ann Surg 9 5 luxus, 61

Abdominal pain and disconfort are the symptoms material surfaces do not respond to previously unexpendent stimular. The most important physiological phenomenon resulting from intra-abdominal irritation is sparm. Surgical treatment simu to remove the irritation causing the sparm. Kappus produces local abdominal anesthesia by injecting the semi-linar ganglus to block the splanchines.

Jonnesco resection of th ever so thorace nerfer the treatment of epilepsy has proved nunciosaful. Cervical sympatheticiny, has been pipied also to expolibilating potter in graine, tridizata inerulga, and angina pectoris. In cases of epilepsy and potter the operation has sometimes been followed by other the operation has sometimes been followed by other has a rarrely done today and de-Schwe mits does the sa rarrely done today and de-Schwe mits does recommend it. In case of restriction of the varial field Ahadie found that the resection of or not be carroid about has followed by transacts improve meet. Lugicion of the carroid bad a smaller effect

The sympatheti nerve supply to the thyroid pain (dolors at superon thyroid artery). The in fenor thyroid artery is probably accompaned by branches from the second cervoral gazgino. Lgs too of the superor thyroid in beating location of the resulting anemia and the section of the nerver the second continues and the section of the nerver the second control for the section of the second possible and the second control for the second control for the second control for the second control for the second control of the second control for the second control of the emphasism of the second control of the emphasism of the second control of the second control for the second control of the second control for the second control of the second control of

Lencho proposes resection of the aumeniotemporal nerve t suppress parotid secretion in cases of parotid fistula

In angua perious Jonnesco relacered the pain by removing the middle cervical graphon, the symps their trunk, the piezuese about the inferior throad and vertebral arterles, and the inferior and first thorator graspia on the left usde "Tuffer relevent pain" in case of discrete and fursform arrunam of the thorator aorta by freeing the ansurum and wrapping it with a strip of facale lata. The freeing warping its with a strip of facale lata. The freeing

of the ancurum probably removed the sympathetic pleximes.

Letticke, who was the first to describe perf-attential sympatheticinary has reported about airty-four operations. From 8 to 1 cm of the adventura are removed. A primary marked contraction of the artery is followed by dilatation, bids becomes at the result of the perfect of the result of the resu

Along the course of the perspheral nerves, turns are given on with increasing frequency toward the persphery and connect with or form the next orly on the blood vessel. Todd and Kramer state that the dutal atterner are surplied by synapsithets fibers as a supplied by synapsithets fibers as the surplied of the perspectation of the perspectation of the next to the value and structed of the same area. In case in which Regard sutperfel the ulass nearch there was almost inmediate restroation of sensition. In disappearance of stream onto after an extension, the surplied of the surplied of

mountained classifies therefore a among from injusy to the per attent of smither hermon as follows (1). Physiological rection characterized by pointific schemis and conexuti visualization and (1) a distribution of conexuti visualization and (1) a distribution of long duration or an abnormality persisting diction. Uroup includes it pers errors for R, N junio disease and possibly scroop among follows are attend sparse may be so interne as to lead to gasterner. It may occur after treating, such as fracture or the abnormal properties of the control of the con

mit iron he over a hash on a min what iron with trophic disturbances in the arterial walls. For Raymand's thesase, which is distinctly wiso motor disturbance with local process and ambraid attacks and it he gangrene is terminal phisomeomo, Lencke has performed aympathectomy to read the enthor once I the author's case, that of a god the enthor once I the author's case, that of a

man aged 70 years, the operation—22 performed as both brachish the results were good. Maffer suggests treating acrocynosis by 30 mpathectors; as an experiment to determine the permanency of the vanofilition.

visaodiation. In the second group, the only parkology noted, if any is an addresson of the vessels it the courses sheath or as intereste in the visualization of the ad-critical interests in the visualization of the ad-critical interests of the group terms of the control in the control in party in the control in party in the proper second in party in repose remote from the large blood cessels may be accompaned by palso of replactications. Lendon states that after injury in a sover this passage, mean attention is summore distributed in the party i

erternal exminathetics 5 mpathectomy has given good results in () centralgra following war "ounds" () certain paintel craces preceding gangrene caused by obliterative endarteritis (i) asomotor trophic acurous with contractures (a) regulal attump (4) troobse sierra tions of stumps and attempties (6) troops: ordered, and (7) pichemic paralysis of the forearm. The uthor reports gratifying results in Ray and a deease cervical rib, a painful stamp from amputation eight yours previously, and trophoneurous whose tractures and para in the foot I a case of beginning gangrene of the toes th calcurrous tileal arteries and severe pain the pain crased and the gangreec cleared up. A case of gangrene of the fingers as detlocily improved. I one case of painful streep the treatment failed. Two cases of floorger's decase ere slightly benefited. In the case of sa elderly woman with across about and artemoschero-w following wound infection, he sporthage and death followed lugation of the femoral arters Camalant is resulted anomotor neurous resulting

from the 'entation of a mused ser. I Lennie opanion it a doe to neutral of the per attent in mpathetic sy tem rather than direct input of the serve trial. I made case of extendige following the text trial. I made case of extendige following the course of the course of

WALTER C BUREET, M'D

SURGERY OF THE CHEST

CREST WALL AND BREAST

Kernes, G. Chronic Mastitle. Brd J Surr 20 80

In Keyner' opinion, the current ideas concerning chronic mastitis are vague and erroneous H be beves that only the more severe types of the condition reach the surgeon, and that the treatment

given as often unsatisfact ry

The article is based upo a study of a mammary gland removed from every female body coming t postmortem room during given time, and upon male mammary glands, tosue removed from female patients operated open for chronic mastitus, mam mary rlands removed because of carcinoma, and cases of chronic mertitie in which the conditio was The not severe enough to warrant operation autopsy material was carefully examined histologically, and the operating room material was studied hatologically bacteriologically and them cally

The study of the pathologic changes in chronic mastitus followed a histologic study of the normal breast from fetal life until the completion of the postmenopausal changes. The physiology of the breast is discussed in detail because it is the key to

the pathology

If the disease is an inflammatory condition t would be expected that infiltration of the connects tuste with leacocytes would invariably be present Such an infiltration is not always present connective tuesse is not packed with feucocytes and the particular points of their concentration are in close relation t dilated across along the course of the ducts. It is evident also that the round cell reaction is greatest when the luming of the cim or ducts contain find each in disintegrated cells, partic tharty in breasts thempting t lactat dominating type of cell is the lymphocyt

Other histologic changes are fibroun, dilutation of the arini and ducts, epitheiral changes of the kinds,

and parallomat

The condition is most commonly found in unitial ried or childless women pproaching the menopause I such nomen it usually appears bout ten vears earlier than in women who has borne children. It

is not rare in old men

The author ducusses the amous theories regard ing the cause of chronic mastitus but concludes that it is brought about by normal physiological processes in the breast. If considers the non-lactating breast an organ subjected t continual physiological stimuli but Ith moutlet for the products of its ow activity Resorption of the secretion must continually take The epithelial liming of the acini and the ducts a being constantly renewed and the old cells worst be carried off. The breast is constantly pouring

an irritant into the lumina of the acini and ducts When partial failure in the process of resorption occurs the unitation becomes increased and thus a victions circle is established. The condition is not found in the lactating breast because the nipple is open allowing free drainage if secretions and epithelial debra

A comparate study of the mammary glands f animals which normally I ctate throughout life after sexual maturity failed t reveal the presence of

chronic magnitis

Chemical tudy of the fluids from costs of the breast which the author was bl to obtain proved them to be more or less unit ting. A footnote quoting a recent publication by Drew calls ttention t the fact that cellul growth a stimulated by the products of tob ses of cells

Keynes believes that the majority of the non mahamant co ditions of the breast are simple clinical

variations of chronic mastitis

The breast trasue from cases of Ct tinoms studied by the author showed marked increase in epithelial artivity close to the advancing edge of the carringma This fact suggests that the malignant cells mucht be influencing other cells through in tritating secretion Drew is quoted also as pointing out that malignant tumor cells co tain bitance which acts as a potent stun lus to cellular proliferation. From this fact the the concludes that chronic mustitus is condition merely associated with carcinoma and should not be considered precancurous condition also thet carcinoma and chronic must be may be caused by the same unitant As proof that cur

cinoma may be produced by chemical irritants he The treatment Keynes suggests is surgery for the severe forms f chronic mastitis and the j dimons application of the \ ray for the milder cases

cates the tar injections curried out in Tokio

WILLIAM E SM CRILETON M D

Mahler G E Deep Roentgenotherapy in Car cl oma f the Breast. Am J Reculeral 9 h x. 166

Cross firing is mor difficult in carrinoma of the breast thun in deeper carcinomata The greatest possible rel in depth dose must be delivered through the mamm ry region and this must be opplemented by add tion from the stillary portal of entry and the posterior surface of the chest sufficient to make a total of bout a 20 per cent erythema dose

Frequently it will be impossible to deli er suffi esent reduction throughout the tumor I such cases the roentgen radiation must be apprecimented by th unsertion of reduce needles

tabes

It is the author's custom to use ray haring an effective we length of o 174 produced by about roo to 21 ky at a distance of 6 cm 4 mm with a fitter of 5 mm of copper plus mm of 193 mm of

Greent E. Results of Postoperative Irradiation of Carcinouss of the Breset (Resultste postspers irver Mammacronousbestrahlung). Furlacis. A. Geb. & Recolphismillers. 9, 3, 323, 336

The nuber reports the creating obtained in several by three cause of cardenous of the breast treated by fractional doses of the V-ray. The case were classified by Stenatil method. The results with reflect the report of the rep

TRACHEA, LUNGS, AND PLEURA

Owen, J.L.R. and Gonzálet, A. Pleural Epilepsy Ann Serg. 9 j. lexviii, 6

Pleural epicepy is an epileptiform manifestation occurring when the pleural numbranear are stimulated by physical or chemical gents. It occasionally complicates the surgical treatment of emptema. The first case of convulsacion occurring driving pleural lavage was reported by Roger in \$64. Since then about fifth if a such reports he a been published.

Postmeries examination of I tal cases has failed to explain the cause of the condition, and its pathology also a very obscure. The exciting cause is smally the introduction of a foreign substance into

the thoracic cavity

Various theories have been advanced as to the etlology The most important are the anaphylactic, the embolic, and the reflex. That the injection of water or bismeth pasts could cause as uphylaxis access improbable. The entrance of cuboil into the systemic circulation without penetration of the hing theme by a foreign substance is also difficult to explain. The reflex theory is the most satisfactory and is the only one supported by experimental The reflex appears to act through endace the pneumogastric nerves. The convulsion in plearal epilepsy is identical with that of adoptatine The diagnosis can usually be made from the argative history the physical findings, and the fact that the convulsion develops during or immediately following surgical treatment of the pleural carity

The proposeds about airrays be quarted as what comm in 35 per cast of the case. A low beds presents pretiaposes to a fatal tembarator. Many of these excelests can be avoided by ming, so minimize an inseptic solution for pleenal larges and injecting it along without press present. The troam used should be sharp and should not pretrate the long tieros. The treatment is spring that the constitution of the constitution and vision of the constitution are of value. C J Canzer, MD.

McGulre, F. W. Long Compression by Besty Liquid Faraffin in the Treatment of Long Tuberculosis, Bronchiectasis, and Long Abacess. Surf. Gyer. Ir Obs. 923, XXVII, 20

The author used heavy parafin t composes the happ of cits and ribbits. He found that when our pression attackless with authors could not opperature of the state of the state

at had not caused clinical symptoms

There was no absorption of oil by the curulation that which could not be recovered from the chest cavity in free state could be easily accounted for by accumulation in the tissues. In some cases the od passed through the mediastinum t the opposits side possibly by a process of suction, and then became coarsely emulsified. In some sustances it was transported through the lymph channels. Some of it was carried aw y also by phagocytes Occurronally it became tied up in the proliferating process of the cells of the picura and soft tuesces as they became thackened. The authors affirm, however that they were able to recover directly from the chest from 75 to go per cent of the oil injected. They believe that in the cases of patients he could be kept at rest, even more of the oil would remain in the chest CATALY RAINE B BETTE

Jacobseus, H. G. The Centeriustion of Adhesical in Artificial Pneumothorax Treatment of Pulmoneray Tuberculous under Therecascopic Control Proc Rey See Hol Load 9 3 x1, Sec. Flector-Therey 43

Beginning with endoscopy of the peritorial and pleural cavities as a diagnostic method, Jacobsens perfected direct-amon method of thorremcopacity examining and treating adhesions preventing complete collapse of the him.

In a recent article by Graveses the injurious results of artificial powimothorus when complet collapse of the lung is presented by adhesious were discussed on the besse of cases traced from there to thereten years after the operation. The outcome in these cases is also. In the following tables

Table I -Cases	ď	Complete	LUGICIONIDOPATA	WILLIAM
Arthepone			X.	Per cent

Arthepone	X.	Ter ce
Able to ork	3	70
Not able to work		
Ded from taberculose		- 3
Died from other causes		
Daharan		

Table II -Cases with Complete Pacemotherax, but with Extensiv Localized Adhesions 7-0-1

Able to work Died from tuberculous Table III —Cases with Pneumothorax Incomplete on

Account of More or Less Extensive Adheno White to ock

Deed of tuberculous Dred of other causes

T date, about soo cases have been perated upon by the Jacobaeus method In this article Jacobaeus reports seventy five cases and gives detailed description of the technique employed.

The operation is performed under local aniesthesia and is preceded by fluoroscopic examination. The trocar for the thoracoscope is introduced posteriorly at point from one t three interspaces below the adhenous. The trocar for the galvanocautery is introduced either laterally or antenorly. If the cantery is too hot it will burn the adhesions too

rapidly and favor hemorrhage

The simple cord has adhenous are ot difficult to treat without causing discomfort. The broad adhesome, especially those near the spex, which are usually short, are very much more difficult t cauter are and in such cases the operation is associated with considerable pain. It was noticed that the nearer the cautery was used to the chest wall the greater the decoming.

The danger if cautements on a hermourhage Even when the greatest care is used, large vessels are occasionally encountered and burned off. In the opinion of the author a hamorrhage dangerous t life occurs only when an artery as burned through senous harmorrhage armes if during cauterization the hing a penetrated and an artery severed. A severe hemorrhage occurred in only one case treated by Jacobson. The best way t control hemorrhage is to mercuse the pressure within the pleural cavity as much as possible. This is done best by fifting the cavity with salt solution.

The indications for cautemation are as follows Cord-like adhesions up to the thickness (the little finger which are found by X-ray examination

These may always be burned off without great risk Membranous adhesions. The possibility f operating upon such adhesions is best determined by thoraconcopic examination

3 Surface adhesions. In cases with this type of adhesions great care is necessary. Only the granula tion treme which attaches the lung to the chest wall should be hurned off. Cautermation of the hung it self is amounted with the risk of hemorrhage and

the opening p of tuberculous foci and cavities with consequent infection of the pleura

The most common early complication of the cantengation is entaneous emphysema. This may be troublesome for a day or two but then duappears Of greater importance are the pleantic exudates

which may follow the operation. The results in the seventy five cases operated upon by Jacobsens are shown in the following table

Table IV -Results in Author. Cases with Regard to

F.xmdete Cases without emplate 10 Cases with shight evodate 3 Cases with long lasting evodate and fever (6 with emiliate before operation)

Cases with long lasting evodat and empsema (4 with exadete before operation) Cases with ampdate first appearing from one to three months after operation

In the first group of cases the result was very favorable After a few days of fever the tempera ture again became as low as before operation. The results were favorable also in Group in which there was slight exidate which did not reach above the dome f the duphragm, in on or two weeks this desponsed completely. In the last three groups the operation was probably associated with unfavo able charged progress

The results in these seventy five cases tabulated according to the location of the adhenous were as fallow

Table V-Results in Anthor' Cases According to Location of Adhesons

Administration of the last of	C	Carps Andread	te Good et chance remain	Incomplain Colleges of Colleges
Apex Leteral Durphraem	٠.	44	4	7
Total		÷		-
	75 concludes	56 that	50 although	at has been

impossible by his method to obtain clinical improve ment in as high percentage of cases with adhesions as in simple uncomplicated pneumothorax without adhenous the procedure should prove of value in a limited number of cases with cord-lik or membra nous adhesions McMaxey Havener, M D

Hampein, P The Frequency and Cause of Primary Carcinoma of the Lung (Hamperst and Ureache des primitation Languagestranoms) 11 ist pr) & Med a Cher 9 1, 11171, 145

From all reports regarding the frequency of primary carcinoma of the bing it is evident that in the last decade the incidence has increased considerably Previously the condition was very rare. Only one report, that of Leache from Christiania shows no increase (four cases in the last thirty-five years) In German hospitals seldom more than one case of primary carcinoms of the lung was formerly found at autopay during the course of year but today several are discovered. Carcinomata of other organs has a not increased to the same extent.

organ ha e not increased to the same extent. The author attributes the forcease in carcinoma of the lung t the effect of street down it has long been known that poeumonocomans fa ora neoplusas of the lung. The nextly complete sixence of long

cancer in Christiania may be explained by the dust free air in that city and confirms the author' theory. You Tarriers (/)

HEART AND PERICARDIUM

Lerine, S. A., and Cutler F. C. Cardiotomy and Valuatiomy for Vittral Stemoda. Experimental Observations and Cillical Notes Concerning an Operated Case with Recovery. Besides M. 6:5, J. 10, 1, Civins.

The case eported as presented before the staff of the Peter Bengthum Hospital in Boston on M v 33 10 4 four dis after an open the etempt of decrease tensors of the metril sh. Sof as the suthors in aware that she only case on record in which such unperhabited on a mitral tenons, has been completed. Doe on attempted win la operation, but his part tel did not surph.

A great deal of permus tal work has been done on the production of whalm second in the heart Of the m y methods, of approach segged of the most recreasible are () increases by a alvalutone inserted through the per or dow the sorts and () that investion of smill fail through direct vision credioscope introduced through the left anneally appearing the With the methods in has been carried as principally and the production of the fective for regargistion but so the impacts removed been abled to produce more the composity streams.

The case report d was the tof prid jeens of age bo following attack of influents rules age both of the price of the price

The findings of the physical examination Tiboratory tests, and N-ray examinations and the electrocrediograms confirmed the chinical diagnosis f mitral stenous without cardiac reserv. The heart muscle appeared to be in fair condition.

Operation was performed under either anesthesas the either being dimansiered dumng the operation by means of eatherte parsed into the encopharyn The exposure was pinced by "D all Brausty median thoraton abdominal percandotomy "After the beart and bear noted out of its position several times to accustom it it trains, by portroal sails notions was not to the contract of the property of the propert

with the right hand the valvelonous as plunged into the left ventrice at a pout about in the ton the treatfied at a pout about in the pare and away from the branches of the descrading coronary artery, when two matters as turns had been placed. The leads was pushed shoot 15 m stall it encountered what scened to be the mutral ornice. A cut was then made on turning it metally and again on turning it metally and again on the rosation was the copyont direction. Considerable treastings was the consonatered of a lither way of the hand, the matternountered for it laters will of the hand, the matternountered for the later, and as action contained good.

The peritoneum of pericardiam were closed with continuous nilk sutures. The divided sternum was allowed to come together and encircled with after wite. The periosteum was approximated by multiple interrupted sources. I the subcutaseous per-

sues and skin fine all, was need

Immediately after the operation the general conductors seemed good. At this time the pulse was see, the respective of the system of the system

A carrial study of the heart fashings could not be made until fur the fourth day. The disstoles thrift and murmor ere then distinctly diminished t the apex and the apical systoles assurant suncessed. A persential to and for forction devil oped and there was some evidence of pencitrial effision. The diagnosis was not confirmed by tap-

page because of the patient's condition.

I conditions the a thors state that at this stap of their observations they do not know definitive to the condition of their observations. They do not feel very sanguage in the regard to the latter but below that if any improvement occurs in the patient's visit expectly this may be tal. In as definite induction that the serious has been been also defined inches the condition of the cond

capacity this may be tal, it is definite indicators that the sterous has been somewhat reberred. The case demonstrates, bowever that surplical motivation for the correction of mutual sterous is without special risk and about encourage attempts to affect the chronic condition for which there is no other treatment. McMicross Mancart, M.D.

GESOPHAGUS AND MEDIASTIRUM

Glogau, O. Tw. Cassa of Descending Ratur-Chophagest Absense with Philopson of the Neck and Threstreaing Mediastrikis; External Operation Threogh the Vesculer Rature Prephylactic Goldar Mediastinotomy Ratures Largescope, 9 3, 2224, 500

In the first case reported, that of a baby x months old, a swelling on the neck was associated with difficulty in sa allowing and breathing a septic temperature chills, and characteristic pressure pains along the muscle and in the jugular feasa. These symptoms pointed to a threatening mediastinitis due to the descent of a retro-croopbages abscess which was detected on pharyngoscopic examination The original cause of such descending abscesses in bables is usually a submucous abscess in the vallecula

In the second case the symptoms were similar to those in the first, but addition there were pressure pams and saching on the other side of the neck The abacem cavity had already crossed the midline and as encreaching upon the vascular sheath of the opposite side. With the exception of a cold, no

etiological factor was demonstrable

In both cases there was a solid mass of indurated tuene around the vancular sheath. Only the thorough pharyingo laryingoscopi examination, through which the level of the suspected pus cavity was as certained, pointed the way and induced the operator to cut through the indurated mass in fro t f the carotid artery to evacuate the pus. The scaling of the apparently healthy anterior and posterio mediartinum prevented the pus from encroaching upon the important interstice between the vital organs and thereby warded off such dangerous complications as supportative methestin in percarditis pleunts, lung abovess, and general septicemia. The typical external drainage of the descending abscesses by way of the wascular sheath, combined with scaling of the mediastinum, proved t be life as ing operatooa GUT L BOYDER, VID

MISCELLANGOUS

Pinchin, A. J. S. Framery Intrathoracic Neoplasma Precidioner 923, Ct. 42

The author ducates some of the t enty cases of primary intrathoracic neoplasms that have comunder his observation a thin the last tw. years

Of the growths arming in the mediastinum sar coms is the most common, while of those or manating in the lungs, carcinoma is the most common

Sercoma armally occurs between the fortaeth and fitteth years of age and affects males more frequent. ly than temales. The symptoms may be shight. At first there may be dyspaces, cough, and pleuritic pain but hitle sputum Later the sputum may be pro fuse Both in this discuss and in carcinoms of the hing cacheria is not definit sign until the later stages Sarcoma arises in the lymphatic atructures

of the thorax, molding itself around them nerves and artenes, though surrounded, are not disorganised, but the veins are frequently invaded The growth spreads by direct extension usually invading only one lung more frequently the right Finally because of the increase in the size of the tumor pressure symptoms are noted. The signs are as indefinite as the symptoms. In the early stages bronchitis may be present. As the mass increases the same may become more obvious and include signs if pressure, retresternal duliness, clubbing of the fingers, etc.

The condition must be differentiated principally from lymph denoma, tuberculous, a d aneurum

In cases of lymphadenoma other glands besides th mediastinal nodes are involved, the discuse usually appears later and crises fren occur. The nationt th tuberculous poears much sicker than the patient with neoplasm The temperature curve in tuberculous is characteristic. I surcoma there is usually no fever. In tuberculous affecting ne lung there is retractio of the diseased lung with emphysems of the other the term I not as more resonant, and the heart is displaced to the affected ande. In cases of neoplasm the sternal note is dull even i the lung is collapsed. d the heart is little dis-In tuberculoses the breath sounds are monster than in surcoma If I cases of surcoma the condition is confined t the mediastinum, both paces all be clear while (it has involved one line the other pex t least will be free this is much less pt t be true in tuberculous. The differential tion f aneuram may be very difficult usually more severe in aneurum and ordems and enlargement of the years are rare

Primary carcinom is more common than is gener ally believed. It usually occurs somewhat later in hi than aircoma It m y manifest taeli as circum scribed lobular diffuse lesion and its symptoms vary accordingly As rul tis unilateral B on chaectages is common. The turnor is pi to undergo degenerative changes. Cough a usually the earliest symptom. Hismoptyms also occurs early. The differential diagnosis from tuberculosis is difficult A flat percussio note, absence f the tubercle bacilli absence if fever absence of signs at the per, continuous hemoptysus, and the involvement of

large lung area without signs of cavity formation speak in fa or of carrinoms and against (uberculous RALPE B BETTMAN M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM
Gallie W. E., and Levieurier A. R. Living So.

Gallie W. E., and LeMesurier A. B. Living Sutures 1 the Treatment of Hernia. Casadies M Ass J. 9 3, xm, 469

In the authors onlinen the recurrence of hereix after operation is due largely t the ineffectiveness of the type of operation performed rather than lack of skill on the part of the operator or faulty after treatment. I experiments on rabbits in which they tested various kinds of suture material they found that the usual amount of scar tusue forming after the division of f was and aponeurosis was not suffi thatand the strain t which these structures are norm lly subjected and that overlanding and scarniving the edges of the divided feets and aponeurous increased the probability of permanent union. When sut res of h fair fairs were med the results a ere very much better as these became folded I to rounded cords of great strength. Such swittre is better than catgot as it is not absorbed and con tinges for all time to perform the function for which it was intended. It is preferable t non-absorbable materials such as linen and silk because it is composed of hving tissues which are non irritating and heal solully into the structures through a back they pass a thout showing a y tendency to cut out when they are subjected to ordinary physiological strain

they are suspected to ordinary payrossopical strain. In the linearition of "inscall satura" needle with a large eye is used. Catgot is faed around the end of the lasten to prevent sphitting, and svery second or third stitch is anothered by alip knot. When the first sature has been used up a second may be tacked: If in the stime w y as pecors of tennis gut are fastened together and the sewing continued.

The general plan of the a thors' operation resembles that of the Bassan operation. The sac as removed and the various mincles and fascus are thoroughly cleared. A pace of fascus lata about

is long as removed from the opposit thish and threaded on needle with large eye The first anchoring uture is passed through the rectus sheath and muscle close to their ttachment t the pubic hone and then accurely fixed into the persosteum and the termination of Pospart's ligament The suture is continued outward, fixing the internal oblique muscle to Poupart hyamest, and after knotting. continued backward as a second suture has super imposed on the first. These setures are drawn sufficompily tast to make them he flat but no attempt a made to dra the aponeurous structures tightly together The external oblique is either closed with cateut or woven together with a narrow strand of feacur.

In a series of sixty difficult cases operated upon by the authors in this manner there have been no recurrences after a period of at least two years. The procedure is undicated exposurity in all cases of direct hereis and all cases of oblique midrect hereis occurring for the first time in persons of middle age or older. It is, of course exancessary in cladiers and young adults with recently discovered oblique hereis.

Theoretically this type of operation would be of equal value also in cases of femoral herms. The femoral ring could be closed off effectively by a step of fascs anchoved into Propart. Is guest and crosing the mouth of the cruzal canalito accorded anchorage in the pertilical fascia or the personers of the reason of the public boss. C J Gausset, MD

Dowd, C. N T berculous Peritonitis. 1ss Ser. 9 J. hrs. 61

The patient whose case is reported as first eyer test opon by. Down when he as 5 years old A sample laparotomy was done. The perutocean was should studied with taberies, the omentum had become contracted mass, and a large quantity of seatch field as present. The patient then creased comparatively well for several wars. Fifteen years that was been as a summary of the several wars a fifteen year of working and prute in the repost of the speeds of working and prute in the repost of the speeds of the several operation the land forward about the utrition appendiages, and the appendix was bursel to them. The walls of the centers are thicked Microscopic evanuation of the removed appendix received in reducers of the product years and the speeds.

Following this operation the putsent was appear cutly well for faw years but then had recurrence of the statchs of puts in the lower ablormen. At a third operation the personous as found to be farted to the putsent. The tubes and owners, but are consisted in inflammatory times were removed. On increasing the putsent of the putsent of the butterful therefore adjunctive Sance this operation the patient has remained all and free from pairs, and in the last year her grained as the

This case demonstrates the ability of the body to take care of general peritonical infection and proves that tuberculous of the pelvic structures is evy perinstent VEN G Brusary M D

GASTRO-INTESTINAL TRACT

Biackbern, C. B. The Nervous Mechanism of Functional Disorders of Disortion, with Special Reference to Hypertunic and Hypertunic Dyspepsis and Nervous Colitie. Mal. J. Australia 221.1, 45

While the term innctional deorder implies absence of organic disease, there is all ye an under

lying cause and for this a careful search must be made

The direct control of the digestive functions is in the sympathetic nervous system, but as there are numerous connecting paths with the central nervous system and with such independent nerves as the hypoglossal and glossopharyngeal, many outside in fluences may be of importance. There seems t. be no doubt that afferent impulses reach the brain from the theestry organs but these are probably taken care of by the subconscious mind

Psychic infraences ha e an effect upon digestion and in hyperexcitability of the central nervous system afferent impulses may have an abnormal effect Is a person with nervous dyspeps: the common empheral reflexes are often greatly exaggerated During nervous strain, indigestion is a frequent complaint. In fluoroscopic studies of the stomach in number of cases of nerv racked patients made during the war the author found hyperpenstalus

and shortened emptying time

As the alimentary tract is under the control of the splanchnic nervous system, disorders of any on section should be considered in the light f their effects upon the entire tract. The dispepsia assocrated with disease of the gall bladder and the cohtis so often associated with appendicitis are concrete examples. The treatment should be directed toward removal of the cause, but the uthor warms against the inducrominate removal of the poendix for course because the latter probably antodates the appendices inflammation ppendect my at the regarded as merely an adminet t treatment

Blackburn directs ttention to the relation between applic conditions of the mouth, nose and throat

and functional disorders of digestion Persons with colitis often eliminate from their diet one article of food after another until they are in

condition of inantison and vitamin deficiency In functional dyspepms the symptoms and com-plaints are extremely variable. Pam and discomfort may be located anywhere in the abdomen, but are not as pt to be constantly limited to a definite area as in organic ducease. Flatulence and gas are common complaints and persons so troubled rapidly acquire the habit of alternately inflating and deflating the stomach. Drownness after mean followed by profound depression and extreme exhaustion is a fairly certain ugn of hypersecretion of highly aid gastric TUKE

In making diagnosis t must be borne in mind that the functional dyspeptic may vary his symp-toms from day to d y X-ray studies are valuable because they definitely indicate whether the stomach m of the hypertome or the hypotomic type. Fre quantly definite information. I this kind will asset the petient in overcoming the trouble. It should be remembered that the chief factor in recovery will be the removal of the underlying cause. The patient mental state insofar as it is affected by overwork, worry domestic unhappiness and unrest, most be understood. As these patients frequently

fear a tumor or other organic disease, a complete X ray study as helpful The diet is of less importance than the manner of eating and thorough mastication of the food

Drugs are sometimes useful Bromides are em played for their sed tive effect Belladonus may be used in cases of hypertonic stomach. Strychnine should be given only to the apathetic person with hypotonic stomach Alkahes reheve the local gastric discomfort. Other measures such as rest massage the taking of boliday at regula intervals, postural treatment, and the tion t associated conditions are of to be neglected

VERSE G. BURNES M D.

Cole L G. Gastric Ulcers. J Am M 4ss 9 1 lune of

Gastric ulcer can be diagnosed by means of the roentgen ray as definitely as fracture of an extrem ity and if the \ ray is properly employed t is far more reliable for the diagnosis of ulcer than the Wassermann test is for the diagnosis of syphilis Moyniban say that 50 pe cent of the diagnoses of gastric ulcer made by ordinary methods are erroneous, and that the roentgen ray is now in indispensable diagnostic aid

The five different types of spasm are () the prepylorospasm, involving the para pylorica (2) the p lorospusm, involving the pylonic sphincter (1) the postpy lorospasm, involving the cap (4) the cardia speem involving the cardiac onfice and (5)

a narrow ulcus in the pars media

Spasm f the stomach is manifested by (i) direct evidence () distortion of the ruse (1) a deep sulcus opposite the crater

By serial roentgen examinations frequently repeated one may study the gross pathologic changes of gastric ulcer the size and shape of the crater the amount of induration surrounding it, is location in the stomach, and its increase or decrease in size during periods of exacerbation or recessio. f symptoms

The diagnosis of gastric ulter has been made from) the presence of fleck f beamuth submitrate of burnum in the crater of the ulcer (s) syndromes and (3) the morphologic changes in the walls of the stomach. The first two are unreliable, b t the pathologic change in the wall of the stomach can be definitely shown and t m on thus, and thus only that the diagnosis can be made accurately

There are six types fuller () the deeply pene traing () the burrowing (3) the large shallow flored ulcer (4) the small round I oval ulcer (c) the mucosal and submucosal ulcer and (6) the healed ulcer with gross hour glass contraction or shight dimpling of the mucosa

The deeply penetrating ulcer myolyes all the coats f the stomach and is show in the roentgen ogram by definite signs () diverticular projection from the stomach bemuth shadow at the lesser curvature () immovability of the diverticular shadow under palpation (3) the presence of bumuth remains in the diverticulum. (4) the presence of a hembphenical gra bubble above the bismuth patch (5) sharply defined driving in of the greater cury ture causing the so-called hour glass contrac tion (6) displacement of the pyloric portion of the stomach t the left, especially noticeable in mules, with nearly vertical position of the lower part of the greater curvature (7) marked diminution in the motulty of the stomach (8) antiperatilisis of the stomach (o) the presence of tender spot acut ly sensitiv i pressure go i g sensatio of resistance, and situated abov the umbilicus in the region of the left ectus muscle. This type fulcer is readily recognized; the fluoroscopic vamination if in sungle plat

The burrowing aker burrows toward the pylorus between the mucous and serous cont of the stomach stripping one to I from the other. The barrum filled crater has the appearance of a long tongue. This type of alcer must not be co founded with the

penetrating after which penetrates into adjacent

vucers or under the byer The lurge shallow flood ulcer is easily recornused b t difficulty is experienced in determining non mulisment ulcer or an ulceration CITCIDOR In cases a buch the crater measures 2 cm or more the surgeon during the operation or the puthologist on sectioning the specimen is often unable t determine whether the leason is or is not malign at Approxim tally 5 per cent are powerath malignant. The portion of the gastric wall, back is implicated at a small round cells and connective tiesue is rendered less phable than the normal gastric wall | pd therefore the peristation obstructed as they progress tow rd the pylorus and the involved portion of the gustric wall which is outlised by the burum has constantly the same shape throughout

Small round or oval ulcers ha small criters has in ol e the muroual, submucord and muscu lar cost and sometimes ause localized peritonitis a th adhesions t adjicent vincers but do not pene trat the viscera. The crater erages bout cm

in dameter Mucosal pd submucosal ulcers ha shallow craters which often are not detected by surgical palpation or inspection. The surrounding stomach all as so physic that nicers nes the suicus of the angle may fold on themselves, forming sht like eleer smaler to anal fesure indican be detect donly by opening the stomach and examining the mucosal surface. As many silvers leathe \ rty findings must be considered. The results of besled akers are from small slight scar high will not be noticed unless t is diligently sought to gross hour glass deformaties

Hour-glass deformity is frequently misinterpreted by the surgion and the roentgroologist I ilms made is both the prone and the erect positions are neces sary for the disgnores. A spienic sulcus or deep persetable a ve on the greater curs ture is fre quently interpreted as an hour glass constriction.

It i probable that the hour glass stomack as some times formed spasmotherily but this most occur very rarely

Dumphing of the mucosal coat resulting from the bealing of small round or mucosal picer is due to scar trespe and is not an indication for surgery HOWARD A. McKERGET M.D.

Fischer II Resection of the Stemach for Diese Immediat Freding with the Duedenal Tube Sarg earlier 771

The putient hose case is reported was a women 40) cars of age who complained of past in the abdomen and loss of weight which had perseted for two months. The pain often began shortly after the ingration of food. Attacks of sames were frequent but not associated with vomiling. A disposes of hour-glass stomach with picer on the lesser curreture as made by \ ray examination

At laparotomy the stomach and gall bladler were found buried by dense adhesons. The hour glass form of the storasch as due t a penetrating weer mid y bet een the carchae and pylone ends A Billroth resection was done, the entire pylone region

being resected After the postenor wills had been sutured and before the anterior sutures were introduced an Emborn duodenal tube was introduced into the jepenum through the anastomous Immediately after the assistomous as completed, or of whakey and 3 oz of ter at body temperature ero given through the tube. Four hours later the administration of Emborn feedings every t hours was begun. Water was given between feedings to Bay thirst On the cathth day the tube as itsand semi soft diet then gave by mostle pain names, or any other mountemence followed this procedure. The method was first reported by Anderson in Annal of Surgery in 9 \$

Hammo M Camp MD

Vaccari, C. Lipemets of the Intestine (Centries) allo sipcho dei laporra dell'intentino). Archi siai d br # 31 199

\accan finds only sixty-nine cases of lipens of the intestine reported t dat. His own case was that of man 60 years of age Examination led to the diagnosis of intestinal occlusion. On laparotomy fixed induration in the right that fome was found t be an in agustion of the last portion of the ilenni. I this area the intestine was covered by exidat so hard that it remaied all tiempts at duanvagination Intestinal resection followed by terminal closure of the stump and side t side ileocolic anastomous as therefore done. The patient died to day later Autopsy revealed diffuse fibenous pentonitis In this case all the chief symptoms of imagination were absent

Farly diagnosis and immediate operation are essential for good results in such cases as statistics show that the mortality is very high ben operation a deferred until after forty-right hours from the see his patient until about sixty hours after the onset

of the condition

The muscular tresues of the intestine constitute barrier to the development of lipomata arising in the ministral walls. Lapounata which originate subrances grow toward the intestinal lumen, and those which form in the subserced have a tendency to not from the side f the perstones cavity. In examining the resected portio of the intestine in the case reported, Vaccari discovered that there were two distinct lipomata of the intestinal wall, one subscrous and the other submucosal, which were separated by a double stratum of more or less altered smooth muscle fiber circular and longit dunal

Although several writers have suggested that lipomatous neoformations and true hpomata may be formed through metaplasia or degeneratio connectry treeve cells. Vaccari did not observe any cellular elements demonstrating such a trans-W A BESTVAR

Haden, R. L., and Orr T G Upper Intestinal Tract Obstruction J Misseuri State M Ass Upper Intestinal DALKE BE

In a sense of experiments upon animals th authors found that following open intestinal tract obstruction there is a raped fall in the blood chlorides and one in the carbon dioxide combining power of the plasma. Later there is rue in the onprotein mirrogen and urea mirrogen. The rise in introgen, however does not occur until the chlorides have been depleted. The rise in the alkali reserve as evidenced by the increase in carbon dioude combining power of the plasma is an incident in the chloride metabolism. The chloring combines with the torue body or bodies probably in the form f hydrochloride, and the sodium combines with car bome and to form sodrum bicarbonate

The rôle of the chlorides seems essentially protective, neutralizing, or antitoric. Sodium chlorida is very effective in the treatment of the toxemia of intestinal obstruction. If the given the onset of the obstruction the rise in nitrogen may of occur If it is given after the rise in nitrogen has begun, a rapid fall usually takes place. Since there is practically at ays heightened alkalı reserve alkahes should not be given. It is quite possible that umilar treatment will be of value in other conditions characterized by sumular chloride metabolum

The dosage of sodium chlorale should be regulated by the blood chlorides as the toxemia varies in different cases I dogs the initial dose is approximatchy I gra per kilo of body weight in per cent solution. In chinical cases as much fluid as possi ble should be given with the necessary amount of salt. The maximum amount of fined which can be groca will usually require t least a 3 per cent solution of sodium chloride

CARL D NERMORD, M.D.

coast of the abdominal symptoms. V ccan did not. Lepoutre and Mouchet. Intestinal Intustiception Thirteen Cases of Acute Intestinal Intusursception in Infants (Sur l'in agmation intestinale from cas disvegination intestinale aiguo ches l'enfant) Ball et min Sec de chir d' Per 9 3 xliv 387

Mouchet discusses the sahent points in thirteen cases f acute intestmal intussusception in infants from the service of Lepoutre of Lille The condition occurs more frequently in young infants than is generally believed Ten of the thirteen infants were less than year fage and eight were males. The frequency of intussusception in the first year of life and the predominance of the ileocacal variety may be due to lack of fixity I the colo

Early operation is of importance f successful results. The findings of abdominal palpation may he masked by the liver contraction of the purietes. or distended intestinal loops, but the co dition is indicated by peroxysmal attacks of viole t pain associated with vom ting and the passage by anua of bloody mucus in the case f a previously normal nursing infant. If rectal examination is done early blood will be found o the examining finger before blood is expelled

Before lump is palpable a careful examinatio demonstrates localised tenderness, resistance of the abdominal wall and firmer committency of an intestinal segment than normal. Fever occurs in more than half the cases

Of the thirteen infants whose cases are reviewed ne died before an operatio could be performed and seven died after operation. Pouliguen reports eleven recoveries in fourteen cases treated surmoally and Peterson twenty two recoveries in twenty eight cases operated upon. In fifteen cases of intusingception in which Peterson did resection there were eleven deaths and four recoveries Lenoutre cases treated by intestinal resection were fatal

Reduction is usually possible when operation is performed early. In nursing infants, and expecially when conditions are unf vorable, resection is extremely serious According to Peterson, recovery results in not more than so per cent of cases so treated Lepoutre therefore prefers forcing reduction t the risk of producing lacerations

Operation offers the only chance of cure, but in certain cases which are t xic from the onset death results w thm few hours in spat of very early surpcal treatment

In one i Lepoutre s cases, that of an inf taged 9 mo the, in which the belommal wall was closed in three layers and an dheave pluster applied, the wound brok open during violent attack of coughing on the seventh day and loop fintertine appeared Several hours later the testine was reduced under angesthesis and the abdominal wall sutured in mass with sil er wire. The child recovered Postoperativ evisceratio followed by death few bours later occurred in two I Mouchet's cases

Ombrédanne states that the constant straining of

the infant is refficient to break the sutures. Monthet holds that the reduced invagination invites sepsis and an attenuated infection interferes with the healing of ound edges Savariand maintains that evisceration will not occur if the aponeurous is su tured with horseheir or silk. Broca states that in the cures of nursing infants it is important to leave the laparotomy sutures in place for a long time According to Vesu, the abdominal wounds of nursing infants do not ocatrize as ell as those of children Therefore he lea es a fenestrated adhean a plaster on the ound for at least twenty days Ombrédance removes the statches on the righth day whil supporting the abdominal wall about the wound between the thumb and adex fi ger to preent evaceration, and after cleanance the abdomen. applies a suitable compress and adheure plaster band go hich is changed as necessary during a period of t nts in a days. Mouchet recommends wrapping a planter several times around the abdomen

Religious are rare. In forty six cases reported by Piterson there were two recurrences. It is possible that they may be presented by firstion of the intertine or appendectomy. Ombit dame and Mouchet believ that in cases of old introsusception, difficult reduction, large mesenteric glands, and an indurated tonic iled or crecal wall, firstion is of bitle use and that muck action is of most importance If the atmensception is event, reduction easy and the intestine little aftered. Monthet fixes the exter sal band of the carrets and the first part of the deum to the parietal all Jalaguier Grael and Peterson hold th t inflammatory changes in the appendix may not the spesm that oramates the intessusception. Moschet always does an appendectoms after reduction because of the change in the appearance of the ppendix. Whether the condition of the ppendix is primars or secondary has not been definitely determined

becomes very repails urreducible but Brocs considers this exceptional Walter C Burket, M D

Museumich, Q. E. Undintered I testinal Exclusion. Sure Grace to Oka. 0. J. 2221, 772

yea states that occasionally an intrastaception

Intratinal endusion is operation frequently indicated in addomand surgery. It was first per formed by Trendelenburg in 35; Several year later you Hecker drawed the operation for cases of fatula and adhesions of the bowel. Salaer reported to use in case of fatula and adhesions of the occasion in which resection of the cross of the occasion in which resection of the cross of the occasion in which resection of the cross of the occasion in which resected of the occasion of Eschlergh chief, and described by including in on Eschlergh chief, the occasion of large sampler of animal experience accurately on the bases of large sampler of animal experience accurately on the presence of the occasion occasi

By uninteral excitation, Meanach assum the procedure by Inch the gut is completely severed and the promisel end is insplanted into the nde of the dutal end. The method has set net with approval among English and American surgeons as Moyalian, Warbase, and Keen are of the opinion that it has no ad antages over estaramatomosis except in disease of the second valve. It must be admitted that back flow or regurgation of facul material is not always climinated

Muctusch meets this chief objection t the operation by criting eight chiefual cases. In five cases of tuberculosis of the theoretal valve and partial intentinal obstruction in persons ranging from z

to an years of any he resected the sleam just proximal t the tabre and, after cloung both ends of the small bowel, implinted the charal end of the strain into the transverse colon. All of these patients has remained well for from four to seven years after the operation. In the three additional cases the operation was performed for adhesions obstructing the escending colon subsequent to appendiced pentoustes, for adhesions due to tumor of the kepate flexure of the colon (unfurnmetory) and for an infiltrating, adherent, inflammatory tumor of the ascending colon which did not permit resection. In all of these cases convalencence as uneventful and the rebel has been permanent. Three patients of this series has a been examined , ith the X-ray determine whether or not there is regargitation of ferral material. This was found in only one and

as athout chincal symptoms. In explaining the regardation the author states that in the seconding colon there are authoristics as ver which bring the find there back to the network several times. If the sheecend valve is competent, pertialitie waves force the faces owned toward the areas when the quantity as the accessing token has reached certain voting.

1 a few cases the regurgitation and consequent dilatation of the bowel have necessitated like reaction. De Quervain reported such case and segrested that no interinal theoretions and estimation of the control of the secretary of the hypermotality of the affected segment which enters it repudly and does not permet regurgitation with absorption.

The author concludes that the operation of inlateral exclusions is undersired theirly in henced taberrulosas when resection is contra-induction, in moperable cance of the color and is inflames, toy and mahgasan tumors causing structure of the book it is approved improved instructure of the book it is approved improved in the color post of the color of the color of the color of the and is better than balateral exclusions because acternal fatths a swooded boart N N row, M.D.

Friederwald, J. and Wiest P. F. Some Observations on Duodessel Alimentation. N. 1 wh H. J. & Hol. Rev., 923, Cava, 855

In the authors method of grung doodsmal sinser tations the tube is reallowed to the 55 cm mark in the morning, small glass of water is green to increase permetains, and the pelnest, lying on his right side is them required to make low reallowing motiments which will gradually pass the tabe t the 35 cm issaits. To determine whether the tube is in the choolenum or not, one of several methods may be used. One is apprinting with synange, a slight yellowsh (the staked) find inducate that the tube is down for enough. Another method is the injection of air from the synange. A loud granting sound inducates that the end of the tube is in the stomach, and funter and more distant purgle that it is in the doodenum II the tube is only in the stomach the ur can be withdrawn, but when it is in the doodenum this is impossible. If these methods faul, florocaccipy will deaty show the position of the bulb

When the 1 be is securely placed, any inqual food may be diministred. The thosp prefer a mixture of mile segar and raw egg. At first, the amount should be too merery to shour Alimentation should be beginn early in the morning and discontioned late is the e ening. The quantity of the mile and egg mixture may be increased gradually up to 2000 cm. N and vorsible effects due to the metal is bulk have been observed. The mount should be breened to meet a thin an animente wash

Saturatory results he e-been green by tha treat ment in cases of gustno and disodenal ulcer of a serine type, atony associated with prolapse of the stought and intestine, the vomiting of pregnancy services conting, and cases of surgical operations on the stomach in which naises, womiting, and discomfort recurred. A number of cases are reported.

ROMEST M Cherry, M D

Wheelon, H. Duodenal Motifity \ York II J & Hal Rec 923 cxvii, 65

Recent studies is a number of experiment ers, including Cole, Luckhardt Philips, Carnos, Wheelos, and Thomas, have pointed to the conclusion that, in principle, the sphineter cits in the same say as any other portion of the gastro-intestinal trict, the differences depending upon differences in the mass and gradents of contractile units.

The striking difference between gatties and diofined mobility as the apparent absence of segmental contractions in the atomach. Alvarez claims, how ever that movements slightly resembling such contractions have been seen recently in the fundum In the doodenum has condition must be brought into

correlation with peraction.

In repeated animal experiments I has been shown has the sequential contraction of the denodements when occurring in a sense of repeated understand when occurring in a sense of repeated with the description of the typions sphineter. The second contraction, although means from higher level, is completed after the stomach has begun to relax and while the persistile wave in the doodenum is amounced by the moressed activity of the sequential contractions. The first spential contraction in the doodenum has the stomach and the persistile wave is completed synchronously with that of the sphineter about the second after the beginning relaxation of the activity of this period synchronously with that contraction the activity of this second after the beginning relaxation of the activity. The first segmental contraction then considered predimensusly with that contraction these can be active. The first segmental contraction then considered predimensusly with that contraction these can be actived to the segmental contraction to the can be seen as the segment contraction to the can be seen as the segment contraction to the can be seen as the segment contraction to the can be seen as the segment contraction to the can be seen as the segment of the s

tenng upon ng pomitive phase acta to carry on the function of the pilone spinacter in that its positive phase is completed along with that of the spilinest and while the pentaltic wave is galang strength in the daodenum. Once the positive phase of the penstulic wave in established, the spilinester need no longer remain closed because the gastric (astral) portion is in a state of relavation preparatory to the peasare of a succeeding perstalline wave

In conclusion the author makes the following statements

In the duodeum of the experimental animal two types of motility are noted first, segmental contraction, and second, peristaltic waves

a Peristaltic waves in the disodenum bear a definite relation to the sequences of motor activity in the antrum and pylone sphincter. Hence, peristaltic waves in the disodenum may

be considered as having their origin in the stomach.

ROSERT M GREEN, M D

Braithwait L. R. The Flow of Lymph from the Hisocrepi Angle and Its Possible Bearing on the Cause of Duodensi and Gastric Ulcer Brai J Sary 9 3 n, 7

Bruthwatte a interest in the flow of lymph from the thocacal angle began with a case diagnosed as acute appendicates in which the poendix was found only slightly congested but the sleocecal glands were jet-black and a chain of jet black glands could be traced up to the duodenum and the superior mes enteric vessels. There were also two black glands on the greater curvature of the stomach, a in. from the pylorus The pathologist's report on the appendut and glands from the ileocecal angle and stomach groups stated that there was no evidence of mahamancy The proximal third of the appendix mucosa was deeply pagmented, and microscopic study sho ed muses of proment inside the phagocytic cells deseminated in the interglandular turns and following the vascular channels. The glands were abnormal in their central sinuses, containing plasma and no lymph

Since the observation of this case Braithwaite has tested the normal flow of lymph from the ileograph region by postmortem mjections and animal experimentation and by the injection of indirectioning on the operating table. In this manner it was found that there is no communication which passes from the appendix to the lymphatics f the pelvis, that few vessels pass to the retroperatoneal space in the right that force, and that the dye passed repeatedly inward to the small intestine and outward to the ascending colon and sometimes to the glands around the trunk of the superior mesenteric artery. Most of the hmph passed deeply to jom the lumber group some of it passed upward over the head of the pancreas to the group of glands along the inner border of the curied duodenum, and some passed through this group to the duodenal wall itself and occasionally beyond the pylorus, in two cases reaching the chain of glands along the common duct

Further investigation determined the flow of lymph through the omental lymph vessels which car ned the dya more slowly t the greater curvature of the stomach

Sindies of lymph gland pathology and cases in which the lymph glands were tied showed berrant

or retrograde for of lymph The author concludes from his investigations that dy spepai duodenal and gastric ulcers cholecy ditta, nd et n gall stones may arme i om appendiceal RILLIAN E SHATTLE BOY, M.D. infections.

Fight Cases of Perforated Girode and Delbet Doodenal ad Cartric Ulcer (flut observations d' (cères duodeno-gastriques perforés). Rail el mén Ser d he de Par 9 3 x4 54

This article reports seven cases of perforated gastric older and one case of perforated duodenal ulcer. Three p tients who were operated upon between thirty six and maty hours after the periora tion died immediately after the operation. One who was operated upon in the tenth hour died of four recovered. I ve patients had no curry instory of gastric trouble to had been treated medically for gastra condition and one had had gustro-enterostom (If those he ecovered one was operat d upon fi hours after the perforation one at the end of ten hours and t eizht boun

bome of the factors having bearing on the progperforation and the oper tion the size and sit of the perforation the presence of adhesions the character and quant to of the stometh contents and the amount of a sinc secretion ological study of the gustne onte t us made us four cases In 1 o they were found t be assented adin two septic. That cases furnic toma h

contents were fatal In most cases the author resect the dees of the ker and cloves with toly is perpundical t the axis of the latestine 1 order t enlarge the caliber of the area operated upon. The technique

the ordinary to loroplastic technique Rosex Irros M.D.

11 II. A. J. Cleatrication in Duodernal Pertie Ulcer (Zur Frace der Vernubens des Ukge peptienm dundroli Arch I park And 11 11 1

Recent Investigations, chiefly those of Bert est his co-workers, h \ shown that risodesal ske occurs and healt with some formation much more treducarly thus has been believed up to the brook time such ulerr mars are found next correct in the sixth, seventh as I eighth dreamer, but some too in infancy t property and in the it i and fourth decades

The a ther samined rine cases macrocopieder and improved series a plose of the grant and and prosterior all of the doodered as they so the unterton wall has much slighter terderen taber The appearance of the scars vanes mently stee there are star shaped figures in the mecon. In other cases there are elevations of the worous near brane which lead to an eleer situated in the land sontal portion. This type of scar gives me to are di erticula which begin sa t o pocket like fat de previous at the side of the slorr sear and may be come converted fat deep sacks by the premise of the intestinal contents. The explanation for the found in the fact that in the upper horizontal parties the deorleant wall is thun and found West are diverticula are saturated above or below the autom or nost rior walls.

Such scars do not lead to struces, and commen develops much less frequently in so ster of the duodenum than in an alcer of the stouch. he worthy of note however that the scan of dealers ulter are associated with hypertrophy of the priess which may be attributed to spenticity. Scotters was alway found in the depths of the over, men ing lot the subserous layer the everymentation of the intestinal wall, meaninters, and sebrem with Brunner's glands, as ell as the recented, had been destroyed callous change of the values not found Acres (2)

Fischer II.: Primary Ofeer of the Jelanus An Swe . Little, 175

The case reported was that of a own press of ge who entered the bospital for the select intermittant gastre pain, dispute, pwint ack swests and sight houseness. The study of put originated in the epogratisms, radiated to the lick and permited for from to hours to fee in The had begun several years previously and moved to have no relation t the process of feet. The had been no comitting. During the past two senertigo, pulpitation and chills had accord a fidefinite intervals

The potient remained at the hearts is reweeks and was given a thorough emmants. The onl pouts e findings were occurred emersion faint systolic murmer at the sper whiles not t ansmitted. The blood count shored a most en throughes, 5000 lescocytes of per cor per nuclears, and 24 per cent hunderstes. The horse globin was 35 per cent and the blood practice p The Wassermann test the examination of the less

and the X-ra examination on action Is n trent was discharged inhad upser duradir ting a stol furnos cane

later abe was re-almost wife which as a delightness. Grown as readered a for-terior and the property of the con-traction of the contraction of the con-traction of the contraction of the contraction of the contraction of the contraction of the con-cept and paid of the contraction of the con-cept and paid of the contraction of the con-traction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the con

at a the train the court of

The world before the enterprised in Lural Hataman and per to white their bactor are

result an induration of the jegunum, the size of a merter was found. A diagnosas i primary ulcer of the refunum was made and a retrocolic duodenoleganostomy was performed \omiting which oc curred during the first twenty-four hours, was reheard by matrix la are

Four months later the pain was gone the patient had gamed Ibs and her appetit had returned, but there was still evidence of blood to the stools In Frecher's opinion there is possibility of malig HARDED M CAND M D

Heres, H. F. Infectious Colitie B see M & S J ore cleaxam oor

Jones, D. F. The Surgical Treatment of Ulcerative Colitis Baston M & 5 J a t circom, con

HEWES tates that the general of infectious colitis a pot definitely understood. The ondition may appear as a seguel t an infection or debility. It is characterized by ordema and engorgement of the tmenes, profuse exudate, and, in severe cases, ulcera tion of the miscous

The cardinal symptoms are diarrhors and pros tration. There may or may not be abdominal soretiess or main. Names, vocating fever and lencocytoms are often present

The stools are usually small and loose and contam mucus, pers, and blood A specific bacteria

are found On proctoscopic examination the mucosa of the

rectum and memord is found to be diffusely reddened raolica, and ordematous, a th much exudat and often th small bleeding points

Tuberculous and specific dysentery are ruled out by bacterial eramination

Cases of ulcerative colitis may be divided int three groups () acut cohtia of moderate seventy () acute fulminating ulcerative colitis and (1)

chronic or recurrent infectious or ulcerative colitis In the first group the condition perests for from one to four weeks, often follow infection and be comes cured under medical treatment consisting of an initial dose of sahne cathartic followed b contimed colonic irregations with salt solution three or four times day After period of t enty four hours in which no food is given thet of les meat, wheat gruel, and twice baked bread a thout butter is allowed Barmuth may be administered. The patent is kept in bed

If this treatment does not cure the condition is

severe and surgical measures are necessary In the cute fulminating type there is blood in the

stools. The symptoms are extreme there is great prostration, and death may follow in few reks in and of treatment. An ileostomy should be done and the colon impated regularly with salt solution If this does not check or cure the disease colectomy a indicated

In the chronic cases there is history of many ttacks with gradual loss if strength. The characteristic X ray picture show beence of haustration in all or part of the colon. Ulceration may have

resulted in constructions of the lumen at certain

Cases of charrhora secondary t dietary faults and systemic diseases d not show the definit lessons of the mucosa on proctoscopic examin tion. This will also differentiate cancer Infectious di senteries re discovered by isolation of the specific organism

In all serious cases an ileostomy with complet cleaming of the colon is indicated Colect my should not be done until ther methods have been m en trul. In mild cases appendicostomy may give results. The opening should not be closed in essthan yea

Joyes emphasizes the fact that in this disease the entire colon is in alved from the anns t the ileo-

cecul val

In the mukler cases appendicostomy is done (executions of the appendix has been removed) t llow irregation of the colon. In severe cases ileostomy and colostomy are necessary. It is important templore the entire large boxel. The colon is the level to carellanes are encorred, and the first

row of glands are enlarged The disease may top t one of the flexures, b t thus is rare. The lumen my be greatly narro ed

lones has never seen involvement if the ileum CLAYTO I NOREWE, M.D.

Gottesfeben, A. Colon Anastomosis in Heocarcal Invagmation (kolostomose bei Invagmatio ileo-(sectable) Zentrallel f Chir 9 3, 1 438

thor describes an operative procedure (the treatment of intestinal invaring tion described by Ustael and reports case successfully perated upon in the manner that of child 6 months old. The operation consists — disappearantion followed by the policateo of Watsel fistula and the placing I the t be in the tiems coh after opening of the circum, The tube is led int the lower end f the ileum through Banhm alve and serves t evacuat gas nd faces. The abdominal wound is suffired as for as ta lower angle where the tube projects

The dvantages of this procedure are that it consumes little time recurrence is preve ted by the tube and the fistula closes spontaneously after the removal f the tube The method is indicated for the prevention of

postoperative injury following disinvagination in cut cases, and for palliation when an itempt t chanvagnation fails and the patient condition will not permit resection DUMBER (Z)

Craug, W M and MacCarty W C. Involvement of the Lymph Glands in Cancer f the Cocum. Surg 0 3 Leaves, 608 Involvement of the lymph glands in cardinoma

has long been recognized as an index of the extensiveness i th lesson as ell as an aid in prospostication Carcinomma of the circum confirms this hehef

Anatomats and physiologists have shown that the caccum has a definite and well organized lym

phatic drainage which is a part of the fleocolic st tem. This deocolic division of the lymphitics accompanies the fleocolic arters from its origin a d is so closely associated with it that the branches of the lymphatic system deny their names from the peurbhorner arternal branches. Thus we ha anterior and posterior fleocolic lymph essels and glands as well as the appendicular ideal, and right colic vessels and slands

As carcinoma is disseminated through the lamphatic system and the regional lymph glands, the point of imital metastana, series of 100 operative specimens were studied by Craus and M charty to determine the extent of metastatic involvement of the glands. As there are fiv divisions of the lymph channels and gla ds, it was necessary to determine also a bich one is most often in plyed. Fach specimen was dissected out 1th cure that all glands ere found, and was tudied microscopically for evidence of malignant invol ement

In order to organize the m terfal into a classifica. tion as simple as possible the cases ere grouped as follows () cases in which there was no glundular involvement () those with glandular in ol ement (1) cases of colloid carcinoma, (a) with gl adular involvement and (b) without clandular involve-

ment. One hadred pathologic specimens and 1,033 esociated hymph glands were examined ner cent of the cases there as metastatic in ol e ment of the regional lymph glands. Lymph glands were found buch were pormal in consistency yet palpabl and plainty visible t the naked eye. The same of the intest; il lesson and the same and number of the regional hamph glands proved to be no craterion of the presence or absence of metastasia Lymph glands amulating carcinomatous glands in sure because of marked cribil trinfiltration and | mpbadems were found to be inflammatory too am Il t be pulpited t the time of operation were found t be the seat of metastass. The cases with glindular in olvement also aboved large and numerous infirmm tory glands such could be listinguished only by the use of the microscope Cases which howed in olvement of a large number of glands nathologicall usually proved t be highly malign t climically Predomi tince of the posterior ileocolu. Irmoh etanda la of alenificance as 71 per ce. t. of all glands found nd fig per cent of those which showed metast tie i olvement were in this region C reason to thout local metastass usually protrade int the lumen rather than penetrat the

all of the carcum while those 1th metastams squily savel the wall. The most common site is

the posterior all

Carcinoma of the carcum occurs most frequently in the fourth decade of life Of the cases studied, 66 per cent wer those of males

Cases of annular carcinoma or those in which all of the all as in olved made up nearly 43 per crat of the series. In 35 per cent the growth as confined t the posterior all. This explains why the posterior fleocolic lymph glands were the chief area of metastasis and inflammatory reaction. The small was confined to the auterior wall in its per cent of the cases. The ileocarcal valve was involved in &i per cent Colloid carcinoma was found in an arcent.

I conclusion the authors state that extremely microscoruc examination is the only method of determining the presence of local or regional metatasis

Aschner P W Subhrpatic Absent Secondary t Appendicitie. Y last M J & Mai En

1 CENIL 670

Abscesses following acut appendicuts are smally described according to their anatomical location. Those occupying a position below the night lose of the hyer in front of the kidney, and shows the hepatic flexure of the colon, in Morison's pouch, has been classified inadvisedly as subdisplay

muc. The right posterior intrapentoneal four or subhepatic foesa as a pyramatal space transvenely disposed beneath the overlanging margin of the Its base, and most capacious part, resta against the right I teral abdominal wall projecting fust below the last rib. Its per as formed by the upward slope of the margin of the left lobe of the liver. The it er and gall blackler are its entener boundaries throughout Its posterior all former by the upper part of the right kadney and the lower part and the cros of the displerages, and toward the left by the common bale duct and the disclesses

the left of the milkes the fossa is a narrow cloft bet cen the right lobe of the liver in front and the small ordentum and the poer and anterest surface of the storack behind. Above the selhepatic foats is bounded on the right b the nist Interal ligument of the hier and on the left by the transverse famre Below the boundary is formed on the left by adhenous between the margin of the liver and the saterior surface of the storasch, and on the right by somits adhesions f the great omentum and the transverse colon to the marsu

of the k or and the anterior all A typical case of subhepatic abscess is that of patient sperated upon for appendicitis ith more or less personts who persons the usual post operative impresented for one net or t and operative and alternoon for and polymorphomethen manners whost other subjects symptons Physical examination at first reveals no tons injusted but soore or later deep traderness localizing signs, but soore or later deep traderness is choiced in the right upper quadrant just it, or is choted as the tight appear quadrant just t, or below, the edge of the hver Ultimately mass below, the subsection area and tenderness in the deep in the subsection metrocatal over and in sole right intercostal spaces and the cents are rebral sugle are detected. As the mass may coston setebral same and account. As the mass may be heliotable into the lone, supportation of or boar the ladery is separated. The grave signs of to the ladery in cases of subphrense absense are gettle seed in

mently about

Because of the onset of remittent or intermittent fever and the absence of subjective or objective symptoms is undexte the true lesson, wound retention, subjecture infection, hepsate absence beginning pi lepiklehus are considered. Then as underseed ordering below the livre edge or in the conference of the best of the livre edge or in the conference of the kindney is supported. Finally are, as absence of the kindney or a perincipline absence cannot be reguleded with certainty.

The inflammatory crudat may resolve II importation supervenes, the abscess may drain by breaking into the bowel, but this occurs arely As a rule surgical drainings is indicated. The approach should be made through a lom incresson both permits adequate exposure without the risk of soling the general personnel cavity.

HOWARD A MCKRIOTT, M D

Lockhart Hummery J P A New Method f Treating Ischioractal and Other Abscasses Proc Rey See Med Lond 9 3 xvi Sect Surg

The new method described is as follows

The abscess is opened with kinife by crucial lactacen in the issual way and the pus is allowed t flow out. The skin forming the outer wall of the abscess is then completely cut a y so as t lea

large opening an inch or more in disancter. The interior of the slaces is untroched. A large flat most antiseptic gains dressing as the applied and overest with protector t large it most affected in deventit from staking t the edges of the wound and interfering with drawing. The path is large shought to booth all discharge for tractly hours.

LIVER, GALL-BLADDER, PANCREAS AND SPLEEN

Walcker F The Collateral Circulation in the Portal System (Bettriego zur kollateralen Blut szkulátion in Pfortadersystem) Arch f. blis Chir 922 czy 8 8

The sather reviews the literature on this little hown subject and reports the findings of his own twacer. Examination of 60 cadaver revealed highpurpoted anastomoses 5 per cent in 4 per cent, accessory portal brunches were found, which accessory portal brunches were found, which accessory portal brunches were would establish a collected strendston of the chief veen were ligated by the subscitary brunches were to the most mm in damater. These relationships are show by large number of illustrations.

**Nozmary (2)

Turner, G. G. A Case in Which an Adenoma Weighing 2 Lb 3 On. Was Successfully Removed from the Liver; with Remarks on the Subject I Partial Hapatectomy. Proc. Ray

See Med Lond 9 3 vn, Sect Surg 43 Wright G Primary Carcinoma 1 th Liver Encland by Operation Press Rey See Ved

Land 032 xvi, Sect Surg 55
Frankati, C. A Case of Resection of the Liver for
Mailgonant Disease Spreading from the Gall
Bladder Free Rev Sec Med Lond 9 3, xvi
Sect Surg 50

Sect Surg 50
Turner P A Case of Excision of an Adenoma of
the Liver Which Had Ruptured Spontaneously
Causing Internal Hamourhage. Proc Ray Sec

Med Lond 9 3 rvs, Sect Surg 60
Kidd F A Case I Primary Tumor f the Lover
Removed by Operation. Proc Roy Sec Med
Lond 93, rvs. Sect Surg 6

G G TURNER reported a case f admon of the liver in boy 13 years of age A lump in the right aide of the abdomen was noticed ten days before his admissio t the hospital following an attack of sain. On examination a large lobulated mass could be seen and readily pulpated in the upper right quadrant of the belomen It extended from the costal margin almost to the umbilious and t the insiding in fro t On bimanual examination the mass appeared to extend from the right kidney behind to the abdominal wall in front and could be moved shightly antero postenorly. On percussion, there was duliness over t co timuous with that of the liver above and of the kidney behind. There were no other noteworthy findings

The symptoms, physical signs, and egative cridence led to the diagnosa of a rapidly growing unilateral renal surcoms. A right rector incision exposed large lobalisted tumor apparently arising from the right lobe (t the liver. The left extremity of the tumor reached as far as the notic for the gall Madder. There was nothing suggestive of a primary growth in the bedomial cavity.

The pathological report based on the framen section stated that the tumor was of unimal type, composed of hiver cells, and probable not very malignant. The gall bladder was removed with the tumor following the licolation and ligature of the cysic duct a d vessels. The affected portuon of the hiver was drawn out of the incision as far as possible, and this stomach and toolom were well prizzled away with large games packs. A light how shaped stomach dramp with jaw 4 m long was applied on the tumor aide of the proposed incision and also by typicitied until 1 that firm hold. This provided convenient handl and belped materially in the subsequent manipolations.

With large fully curred intestinal needle threaded with No 3 chrome catignt, a sense interaction with No 3 chrome catignt, as each of satures was then introduced in the promose forms and on the promast seds of the proposed measure and parallel to t. These natures were used as deeply as possible into the liver tissue and almost reached the under urface. Each was locked to it fellow and separately paid.

the cystic duct To prevent this complication the autoplastic knot used in ligating the ureter is recommended Gravian (Z)

Oliver, S. F. Studies on th. Bile and Biliery Discasses. Cincursely J. II. 923 17, 25 Tashiro, S. Th. Determination of Bile Salts in the Blood. Contract J. II. 923 17 97

St doe of the unne and blood show that in discuss of the liver and gill ladder there is leptate inserf facency. As a result of the the character of the bits a latered and. Billiary form of tocema develops. The seventy of the t terms is dependent spon the degree of the beptic maniferency. There is direct causal relationship between the bullery intoncation and the development of cartilate and renal complication.

In cases of gall tones successfully operated on, there is a marked decrease in the bile-sail content of the blood I one case it dropped from 6; to appear cent. The bile sail content of ascitude find cal-lected from a case I curhous of the liner was o'ze per cent, whil similar fluid from cancer of the liner was o'ze before the content of the case of the blood of the case of the sails. I peractions anemia, there is no increase in ble sails.

SAMOR KARS, M.D.

Cameron G Two Pancreatic Functional Tests.

Hal J A stealer 0 3, 1, 7 8

Cameron examined a series of 16 patients to Cameron the alue of the adrenalin eye test of Loese and the estimation of the distance content of the union as tests. I pancreatic activity. Whenever possible, the results were checked at operation or postmottem examination. The adrenalin eye test was conducted as follow.

Both eyes were first examined with regard it the propilary rections and absorbables Ts min ima of occosionation of adressian were then metitled in the conjunctival sac of the right eye and five minutes later a similar done was given it the same ey. The same of the propil was then retended to be supplied to the propil was then reserved to be supplied to the propilary of the and it so be use. Diffraction of the propil during this observation begind constituted positive reactions

The test was found positive in the set majority of cases of citual passersate hours. Eighty per cent of patients with bilany tract disease agrobably associated disease of the punctures reacted positively. A positive reaction was noted also into per cent of patients with attenoactions. The conclusion of the nutries of the set of the patients of the function of the punctures. Other investigators has previously armed at the same conditions.

The test for dustase in the urine was found to be a very useful and accurate method for the diagnosis of pancreatic disturbance. Lessons of the pancreas in the exception of malippant disease and certain tropline conditions were associated with an increase.

in the unnery dissess. I disbetes methtus the

Microscopic examination of the faces revealed the presence of structed muscle fibers, fat globules, and fatty and crystals in every case of patentiate dueses

Jose W Norros. Mb

Zooppfel, H.: Acute Cidema of the Pancress, Preliminary Stage of Acute Pancrestic Necrosis (Des akute Pankressecies, one Yorks år akuten Pankressecirose) Desirié Eisch / Chr 911, chrv. pr.

In four of eleven cases the author observal is pathologic picture hich beyond doubt, we that of acut pancrastic necrous, but do loc childs the clear of the condition, anonly across of the glandian teasor. In each of these cases then we not consider the pancras. These senset for some copie extensions above of inflammatory celesations whose the pancras. These senset for successful control of the pancras is the senset of the control of the pancras is the senset of the control of the pancras is the pancras in the control of the pancras is the pancras in the pancras is the pancras in the pancras is the pancras in the pancras in the pancras in the pancras is the pancras in the pancras in the pancras in the pancras is the pancras in the p

The development of the acute necrous of the puncress might have been caused by obstruction of the bale and its overflow into the puncreate system association with mechanical, chemical, or misch toous infury. Fully developed puncreath necross course phenomena suggestion; levol, while in acute puncreation endema, purs on presents and measurement or person of the guil hinder and are purchased to the puncreat in the region of the guil hinder and the left and of the appear abdoness. From the control of the puncreas is only preliminary map of persons of the puncreas is only preliminary map of persons.

The other attributes the results in his cases on tirely to his practice of operating only in chick thuses All four patients were operated upon the in the first twenty-four hours and were cared Tribute (2).

Volkmann, J. The Surgical Anatomy of the Varcular System. f the Spiece. (Zer chrospodes Anatoms der Margelaum). Zeuralis f Chr. 19.3. 1.450.

The strick is based on forty sutopases and opentions. The splenc artery—hick varies in length, was found to drinde as follow—() behind or in the tail of the peacers (so per cent of the cases)—() beter sets the passers and the allies of the splenc (oper cent of the cases) or (j) at the hirss (—per cent of the cases).

after spector of the vessels roomgroupruss pasts it is planes perpendicular to each other resulted the blood flow between the arterial regions and thereby indicated the being meason for reaction of the spices, the registrations of throad substance for The best produced that which extending all the produced that which extending a strength and produced the produced that which extending the produced that the

Robitshek, E. C. Traumatic Rupture of the Normal Spicon. Historial Med 923 vi, 365

The spiem is perhaps the most frashe of all the abdominal recorr. Its rather superficial and somewhat fixed position under the role, the tendency to both physiological and pathological empreparts and its fragile texture and thin capsul are factors froming replicit when it is translated. Rupture occurs much more frequently in males than in f males because of the greater exposure of the former t knarris. One half of the cases are those of children and roung adults.

The preforming symptoms are those of inthe preforming shock, with a accompanying remptoms of minormal temperature, rapid bready pile, puller, coil perperation, causing stim, and falling blood pressure is usually the first manifestation. Pun is the first and chief complaint and are hunger the second. The cause of death is usually hemoratery without original testings.

the mortality is 95 per cent.
Sciencetomy first performed successfully in 893
by Rugner has steadily guined favor and is now
universally recognized by most authorities as the
standard irrestiment. Mostrie II Kans MD

Ward, G. Chronic Septic Splenomegaly Lexcet,

3 J CO 489 A typical case of chronic septic splenomegaly shows () chronic septic focus () measure spleningly (s) leacocytosis in the early tages and an anamis with leucopeans later (a) recovery f1 owing randication of the esptic focus. Less constant features are (s) fever (6) hemorrhages (r) enlarge ment of the hier jumph glands and the lymphoud basics generally and (8) currhous of the affected and the properties of the conduction in casemalist's generalised and the properties of the splening being the most obtained and characteristic feature.

The unprovement is tollow the removal of septic for and the use of vacciones the fact that the disease can be transmitted t dops, and the frequent ascounts of sphenomegalty with endocardus strongly suggest that septic organisms play part in the nobogy. These organisms must have selective ultimity for the lymphadeood tissues. The sphenomegalter is not become the selective static part of the companion of the comp

Death may occur from hemorrhage. A diagnosas a made by eliminating leukemia, hemolytic sciena, malaria, kala asar G ucher' disease and other disorden associated with splenne collargement. The finding of septic focus, tenderness over the spleen, and the blood part ro of early leucocytous with litter anarmia and leucopienia are of diagnostic importance.

The treatment requires the eradication of the sepas, particular attention being paid to the intestinal tract

In the arthor' opinion many cases of Bantis deseas and shopathic splenic anomia will fall in the group of chronic septic splenomerally. He would also include in this group splenomerally with endo carditis. Egyptian splenomerally entertiat and splenomerally oral sepas and splenomerally and certain cases of semio anemosi.

certain cases of semic anamia.

In conclusion the statement is made that in all chronic spienomegalies of septic origin the underlying pathologic process is the same.

VERME G BURDEN M D

Chancy, W. C. Spienic America. A Clinical and Pathological Study of Scrty Nine Cases. Am J. M. Sc. o 3 ciry \$40

This report is the result of study of the pathological findings and climcal records of sarty nine cases a splenic animus subjected to splenic convent at the M yo Clinc in the period from November 14, 905, t September 1 1970 Cases with distinct hepsits carrhous in addition are also considered

The article is summarised as follows

A composite pecture of the pathological findings in the spleen in spleene ansensa was found to be no if generalised fibrods. While there were no findings in the spleen tissue that would enable the pathologist to make a positive diagnosis of spleene aniemla, the shormathy was as characteristic of this disease as in other diseases producing phenomegraph.

The degree of fibrons of the retsculum seemed to vary in slight degree with the amount of arteriosclerosis, but there was no evidence to show that this

scierous, but there was no evidence t show that this fibrous originated in or around the vessel walls 3. The size of the malpighian corpuscies seemed t be affected by the degree of fibrous, and the

greater the fibrons the more eccentric was the socalled central artery

4. The splenic veins presented no marked ab-

normality or evidence of thrombophichitis

5 Dilatation of the annues was fairly constant

and the reducular cells showed problemative curvity.

The syphiliti spleam resembled those of splenic angents in this respect.

6 The amount of lymphoid tissue present was usually below normal. The malyightan corpuscies were fairly well defined, but the so called germinal centers were small and seldom seen. Areas of degeneration of fibrous nodules were not observed in the malyightan bothes.
7 By actual measurement it was found that the

7 By actual measurement it was found that the size of the majugalian corpuscies was within the normal hmits, but the verage size was below the average for the normal. The number of corpuscies I such square centimeter was found to be twenty three.

8 Seventy per cent of the spleems sho ed that the number of malpapinin bodies for each square area decreased and the man of the corpuscles became smaller as the size and the weight of the spleen increased.

o The average weight of the sphrens was found to be ,o 5 gm

to The a crage ge of the patient with spienic anomic a 33 years and the number of males as bout equal to the number of ten less. They was

percently no familial tendence

1. The most common complaints are a mass

i the left belomen, go tric harmorrhage and weak net a While belominal pul was rarel gi en as

Nhile belominal pri was rarri gira as the hed complet t, the histories brought out the first that thirt) two of the patient had stack of such print taomest ge of the diese se I m is in stances the pain w probably due i perfigle its

13 I the hander mustionspice designated just pulpable weighed from 250 1 500 gm while spiceus of optoximat by 1,000 gm extended t the midding and Imost t the level of the muldicis

4. The relation of the sare of the spices, given in the chancal records it the actual eight and the fact that man adhesions are found at operation suggested that the spices of spices, memia main tains are it city normal position in the abdomen 15. Its seal examination showed twenty four in the spices of the spices of the spices of spices.

enlarged in era, while t the operating table twent six showed a definite rebooks and thriften ere larger tha normal. The size of the li-er seemed that po-relations t the size and eight of the speece.

ha po relation t the slav and eight of the spleen 6 In the sai nim cases the et ge eryth rocyte count w 6,700 000, the hamoglolan 53 per cent, and the leuces te count, 4 900. The congulation time and the ingulary test were normal, not the Wassermann tests and the stool examinations are negative.

can be experient that of the blood counts made after like operations showed a gradual increase as after like operations showed a gradual increase as the construction of the country of in boost severally five during a smaller result by howns by composed that in shed the member of lessors (or found by counts stude before the operations as taken size completes them.

18 A comparison of the insuber of 1) imphorytes in the differential count showed that the error as that the highest for the secretal. At imphoryton did not seem to be a haracteristic in this series to I the tod of the liver towns in spheno.

anomi thirty of the cases showed definite or lost. The liver entirel mornial in note

the layer entire is sorous in none to the chirt patients who had hepatic circhosts are the time a those of the set of the series hemorrhage and belominal mass were the predominating complaints.

1 T at) four of the patients ath curbosis of

the h er had exites

the patients the carbons her dead this forth days of the operation, while rithin the same length of time the de that among the emissing patients would 2 per sut.

GYNECOLOGY

THERTH

Lochrane, G. D. An Endometrial Adenoma of the Abdominal Wall Following Ventrisospension of the Uterus J Obst & Grace Best Emp 0 3 ш, з

In Lochrane case tum mass developed at the set of an incision which w made f wentral suspension of the uterus four years previously. This mess varied in use with relation to menstrustion becoming larger during the periods. At second operation the mass was f und t be an endometrial adenoms in the abdominal wall due evidently to the implantation of endometrial turns during the first operation. The cells were probably carried by HARR W TIVE M D the sutures

Latteri, F S Inspired Hernia of the Uterus (L'erosa pagunale dell'utero) Arch stal d' chu 021. VII 10

that reports a case if his own, review seventy eight of the 1ghty five cases reported in th literature, and discusses the classification, pathology anatomy and embryology of this uncommon condition

Latters believes that in inguinal hernia of the uterus there is alway defect of conformation For the uterus to become a portion of the contents f an indirect inguinal hernia, close relationship between defect in the normal evolution of the canal f N ck and bnormal development f the remits incomal

beament as essential

Insumal herma of the uterns may be t tal or partial The gravid uterus and the uterus mas culnus may be involved. In the literature the uthor has been ble to find the reports f only twenty-five cases f total berms. Of twenty four in which the art was mentioned, thirteen tated that the herma was on the left sade and eleven that it was on the right. In seventeen cases the hernia was urreducible Complet reduction was possible in only one. In fifteen case reports an anomaly of the ut rus or vagina was mentioned

Sixteen cases f pertial hermation of the uterus ere collected. Of eleven reports in which the site of the herms was mentioned, seven stated that it was on the left side and four that I was on the right. In thirteen cases there was malformation of the uterus such as uterus becomes or uterus ba-

partitus

In ten cases in which the uterus was grayed the bernation was on the right side in five and on the left side in five. I one case of becomet pregnancy as present in the right berniated cornus

There ere t enty as cases of herms of the uterus masculinus. Of t enty two reports in which the sit

I the hermation was menti-ned twelve stated that t was on the left side and ten that it was on the

nghi

The principal symptoms are pain and an increase m the size of the hernial tumefaction during the menstrual nerod, lengthening of the vagina with gradual narrowing and deviatio to the affected ande and the transpose on t the hernsal sac of moveme is impressed in the vasing. In partial utering hernus, there is movement of the cervix P thornomonic sympt ms I this condition when the uterus is graved are raped increase in the size f the bernial sac. placental souffle fetal movements, and f tal heart sounds

The treatment is surrical red ction, if possible, or total externation of the uterus

SAL ATORE OF PALMA, M.D.

Truesdale, P. E. Uterine Fibromyomata Basica II b S J 0 5 class 07

The author presents compulation if the endresults 1 300 cases treated by operation and discusses the association of malignancy sterility and hemorrhage a th fibromyomata. In the cases revacwed there were four operative deaths, a mortality of 4 per cent Two hundred and twenty-two of the women were married and seve ty-eight were single Twenty five myomectomies were performed Sur of the pati ta were between so and a years of age eighty two between 30 and 40, 165 between 40 and so, thirty-mx bet een so and so nine bet een 60 and 70, and two over 7

Malamancy was found in nine of the soo cases In six (per cent) the malignant changes were found in the uterus. In two others there was associated ovarian cancer and in one a cancer I the

brosst

In an investigation relative t the present condution of the patients information was received concerning soo Eighty ax pe cent I these reported themselves in good condition. Sixteen complained of some pelvic disturbance, mainly of bladder origin and associated with intestinal and minor nervous evinotoms.

Fourteen had died since leaving the hospital, six f these from malignancy The remaining deaths had no apparent connection with the pre-operative condition or the operative procedure. In five cases th cause of death was the extension of the process found t operation or a recurrence. Four of the mine nomen a th malignancy are hving and well The postoperative lapse of time however is not

The uthor beheves that in space of the present diligent search for early malignant changes, fibromyomata are too often overlooked and are not given

place of a ficient importance in the etioker of milignancy According t different writ ra malie tacy des logs in from 1 to 1 per cent of cases of

tacy decomponant I I men also a series its laci lene was per cent I mpha is is placed on the lamps it need to careful examition of the filtromy orna before the operation is completed as early make na t hanges re difficult if not improvable to chag note before operation

The tendency of fibromyomaty to per ent pergn act a show by the fiet th t sixty (7 pe cent) of the married women in the series reviewed had never been prege at and thirts four had been

pregnant call oper

In document the method of the time title athor recommends the use of radium in hamorch sic cases likh ca not be operated upon I the cases ers sewed, my omerctomy was the operation of boscs for women arrier us a arm of er la cases in which the menopaute a prolonged by the presence of the fibroid supravaginal braterectorin a s per formed. Truesdale prefers the pra aroual his ter ectomy in spet of the most report of the occasional occurrence of malien new 1 the cert cal tumn. He series showed no such restorerat chanees C list by a MP

Caracaden J 1 The Limitation (Radiotherspy in the Management of Elbrormoma of the literas. Am J Cha brown a t

In the ter treent of my orns of the total by solution the selection of the case is the most imports it phase fatta tinne neonlasms a distributi at growths of the aterus must be acluded Chronic drexaling men tion so alght a t ex pe diagnosis not perceivents contra ada tao < mpteens often mus natul une pluned by the loss of bland local p p tenderness and hance the on sistency of the tumor or it rapid growth ad large indicat infimm two deposeration or surcomatons change high all render excusion im

Ricedone due t ulceration (pol ps submissou pedunculated moon tal and blood or scul disease (pernicion anemi familial i langu (1918) man not ce so uth the onset of the menop use. Pain associated ith menitruation ill ever but pain occurring at other times to not in it) disturbances are not ell rebes ed thin have of the myoms ill limost al. follow dequat divises of radium and the ventgen ra, but the disconstant of the douge buch is percent; coupled a the the potential d get in the large men mil operation preferable

Radrum abould never be used in the treatment of women who is y become pregs t the sclerots. hanges it causes predispose t d stor The \ ray should be reserved for eases which is starrectom is the only alternative as it may disturb the strucdev longent of the fetur

FOWARD L COR ELL, M D

Villet L. The Treatment of Cancer of the Centr f the Uterus (Tratement du ramer du cal ette) From and Par + 1 rd. 4

Radium and the \-ray are now considered the scents of choice in the treatment of cancer of the cervix of the aterus. Up to the present time radium ha been used most generally in I rance and America and the \r in terming Combined treatment

ub radium and the \-ray is now being attempted. The formulas he obtained cry satisfactory re salts with deen \ ray therapy " ata rad ates nurserous field measuring 6 by 8 cm in such manner cros either the cervix or the paramef cruen deured. The German achool in es the pylications in the shortest time possible and the lethal dose each time. In the author's opinion it is better to distribute the dose over a period of from fou t cubt days thus reducing the shock due to the bearston of protein and the hance in the blood. The combination of \ ra) and radium seems 1 swite more complete and extens a effect in a

abort time thout injuring the general condition The dive sufficient to destroy a basocellalit epi theliona of the cers is bet orn at and i me The abould be surred out over I least 6 a or as T t bes of 50 mem of radium filtered by at least 1 mm of platmam in Mack rabber catheter are inserted out the cervis and t tuber of t mam are placed in the cul-de sac. The latter ha 'n man ditration of t least our and are separated from the various mucous by a least 5 mm of grase t project the mucora from the soft gramm (73) a A lireer dose oul lendancer the rect in or blad ler The first of radium rays is rapetly but with

distance \ cancerous gland 4 cm wa from the cancer ili not be affected

the in buch combined The author report radium and \ ray ther py as used. The result led ham t the onclusion that with this method there is little need of surrous intervention. If operation a performed ex three eeks for the speli

tion of radium the surgeon runs the rad of orking hach the ancer Ilah been stated tn picki I tell by the ction of the ruleum he opens the han phatic in res the traues oil destroy protecting therry should not be ombined a th surgical intern from the term was of the bulk treat buth admin not the N RITHUM J MON MED

ADMERAL AND PERI UTERINE CONDITIONS

Vautri Tuberculosis of the Overy and Presented T bert alone or arrestate et growerse) G all al # t

In the use eported the l bor and the poerperrent ere normal but on he t ent second day after delars the present the 4th problem chall followed by ic er of so digree (and pain in the lower left on dr. t. I varmination evided trans-Caction in the kit broad by iment but as tender on deep pulnation and distinct from the ateres

About month later fever without chills re-appeared with morning remissions and evening exacerbations No pulmonary phenomena were observed

An purmonary including the term of the control of t

Operation performed about thirteen months after delivery revealed mass the left broad ligitiment. This proved to be the left overly which was enormously enlarged and adherent to the outer end of the tule, the sigmoid, and the bladder. Between the bladder and the mass an opening was found

The patient made a slow recovery. Macroscopic and microscopic examination showed the ovary to be tuberculous. The parenchyma was affected more

than the rest of the gland
I the utbor' opinion the process developed
originally in the parenchyma and the pregnancy
and puerpernum accelerated it

SAL ATTRE OF PALMA, M.D.

Defanney E. Embryomata and Mund Turnors of the Fellopian Tubes (Contribution & létude des embryomes et des tameurs mustes des trompes uténacs) Gyme et élui 9 3, vu 30

Defannoy reports a case of bilateral tumors of the allopan t bes, one dermoid cyst and the ther a mired timor. The former weighed 275 gm and the latter 470 gm

I 19 3, the patient a soming years old, was secured it broaders abdominal pain particularly in the left lower quadrant. Constitution as present at times a fell by the patient in the left lower quadrant. After the first tack she was well multiply 19. The the had five more statucks before 0. These were characterized by continue, bodominal distention, consulption, dispara, a I dever of from

38 to 38 5 depress C representation of the speciment of the formed as diagnous of pelvic pentionitis had been made on account of the fever and the presence of very tender mass in the cill de sec. As no find was found but, matead, a solid mass, a lays

retorny as performed

Ten cases from the literature are analyzed one of them the author believes is doubtful. There seem to be no draposate is programs except those of solid or cyatic tumor of the overy. Mahgnant thange in these tumors has never been observed. Sai. Tork for Palesa, M.D. Guillemin, A., and Moriot, R. A Primary Epi theisome of the F Hopkan Tube (Epithéhose primité de la tromps de fallops) Gyafe et skil 0 t. vil. 516

y 3, vii, 570

The authors report the case of a diabetic woman, 54 years of age, who was subjected to salplingectomy and total hysterectomy because of an epithelioma

of the right tube. The appearance of ascites seven months later indicated recurrence. One hundred and sutten cases of primary epithe homs of the fulloyain tube have been reported in the literature. The diagnosis if this condition is

difficult as other diseases very often cause the same symptoms vis intermittent abdominal pain, fortid leucorrhoss, and occasional uterine bleeding

SAL ATOME DE PALMA, M. D.

EXTERNAL GENITALIA

Shaw W.F. Carcinoma of the Female Urethra, with N tes of Tw. Cases Treated with Radium J. Obst. & Gymes. But. Emp. 933, 2021. §

Caranoma of the methra is a rac condition only about so cases having been reported p to the present time. It usually occurs in some if 40 years and painful materiation. The growth begins in the unreliant immoors membrane or the epithelium materiation. The growth begins in the unreliant immoors membrane or the epithelium materialistic in the conditions of the case of the condition of the case of the condition of the case and any deep the case of the condition of the case gardens are in order to condition the case of t

The treatment may be operate e removal or The majority of cases so far reported radiation ha e been treated by surgery One of the two oper ations usually performed for this condition is the f the entire urethra and part of the base of the bladder. A permanent opening into the blad der either suprapuls or vaginal, is made treatment gives the best chance for recovery other surrical method is nertial removal of the urethra with preservation I the internal sphincter This is not followed by incontinence but is asso-ciated with greater risk of recurrence. The nly non surgical method is the polication f radium. In the author's cases, which were treated in this manner there was no local recurrence after three years but in ne lymph node with metastatic cells as removed from the inguinal region

HARRY W Free, M D

De Guroscoll, F. An Anatomical and Clinical Contribution on the Study of Benjan, Tumors of the Fernale External Genitalia (Contribute statement chance also studio de tumors der gratals externs della donna). Arti siel di chir 9 3. ii, 77

The author eports two cases of benign tumors of the labin majora—one a fibroran, the other bpoma—a thillustrations showing the gross and the microcope pathology. The cases reported in the interactive be summarizes in table. The following deductions are drawn from has study Benigh tumors of the vulva are of connective terms origin. The most common are fibromatic Less common are the hypomita w this gradiations from sibrohypomata to hypothromata. Myofibromata are very rare. These tumors seldom undergo parcomatous change. They vary in size from that of cherry t that of an dult a head. The larger tumors al-

most al ye have pedicle of the same composition a Important etiological factors are () a predisposition of the connective tissue of the parts affected, sometimes hereditary and () trauma

3 The tumors are usually derived from the subqueermal connectivations. In rare cases they ar

derived from the round byament

4 The t o forms are difficult to differential

histologic examination is operated
5. The prognosis is generally good. A rare complication is pyremia following alceration of the tumor still more rare is surconnitions degeneration.

6 The only efficacious treatment is vaginal extirpation of the tumor

SALVATORE DE PALMA, M D

MISCELLANEOUS

Clow 8. The Effects of Physical Exercise on Menstruction. Leavel, 9 3, cm 6

This article is funterest from a statistical standpoint as the a thor questioned .318 girls bet een

r and 5 years of age.

Before advice was given, 70 per cent tated that
they were free from mensional troubles. At a
second interview after advice was given this figure

was raised to quy per cent.
It was found also that physical exercise, and swen
bothing, fewered the tendency! mentional troubles
Before zerose was advised about up or each of the
gris questioned were compelled! In down because
for the properties of the properties of the
gris questioned were compelled. In the properties
and ther measures I conclusion the sulhor states
that exercise may be the future treatment of both

menorrhagia and dysmenorrhosa Walzer A Straveno, M D

Rondy A. J. Primsry Sterility Am J Obst & Gymrs 9 2, 63

During the twelve mouths preceding September

of on omen consulted the uthor f the treat

ment of primary stensity. The majority had had some operative interference. The operations wrant undusing distances, cutting operations on the certific and operations to the certific and operations to the report diseased following the control of the certific and operations to the certific and operations of the certific and premise supplements the operative measure. It means supplements the operative measure the results of all of these methods of treatment are equally unfavorable. Only twelve of the puterial became pregnant and the probabilities are that the rest will remain sterile unless now treatment considerably more effective that those now employed.

as discovered.

The average age of the patients in this sense was 8 years. The verage period of marinage was an and one half years the longest was servation years, and the abortest more months. Twenty its per cent of the patients suffered from regional mentions the intervals maning from its to more months the intervals maning from the same more than the patients of the patient who began it mentioned at 8 years of the patients and mother who began at 4 years, stopped act the age of 3 years. One patient stopped mentioning as now as the was married, at the age of 2 years. She

counited the author three years later

Fourteen per cent of the patients suffered from
dynanonthens. Many were compelled t reason as
bed during the meastraid flow. Four per cent
suffered from scentry meastraids. One patient laid

suffered from scanty mensitivation. One patient had menorrhaga. Eighty six were examined for patient; I the fallopein tubes. In fifty-eight (68 8 per cent) the fallopein tubes were found to be open, while in

the fallopian (these were found (be open, while its twenty seven (3 3 per cent) they ere powerify closed. The author now uses transuterine insufficient

The author now uses transitione instanting during absolution operations as by this motion has able to establish the patiency of the tobas with the least amount of trainent at the miscons members. He employed is also in extraining approximation of the state of the s

adhesions around the distal openings.

The percentage of cases of sterility which are

amenable t trestment is very small

Enware L Comment M D

OBSTETRICS

PRIGNANCY AND ITS COMPLICATIONS

Harbitz, F. The Pathologic Anatomy of Antol torications" in Pregnancy and Childberth. Sarg Gyac & Old 9 3, xxx1, 707

This article is based on material collected in the course of years from many postmortem examina tions of patients from the gynecological chinic at Riks hospital and classified from the anatomical point of sea into the following seven groups Group puerperal eclampera Group a eclampera without characteristic anatomical changes. Group 3 microcations without convulsions but with the anatomical changes of eclampus, Group 4, utointersections in pregnancy and childharth that appeared clinically as renal disease and anatomically as renal degeneration. Group 5, ato-intoxication in pregnancy and childburth, in which degeneration of the liver predominated Group 6 hyperemens gravidarum and Group 7 auto intomentions in pregnancy and childhirth a th persons symptoms tredominature

The most important anatomical changes in these conditions ere degenerations in the liver and kid as

The cases of excessive vomiting of pregnancy ere of special 1 terest both the liver and the kirl news were involved, and in a few cases there as acute 3 cllow atrophy

The austomical picture in the different groups was to a certain degree similar and the resemblance of these cases to cases of phosphorus, assente and austroom poleoning was of interest.

The syndromes and lessons were probably not due to bacteria as there were no signs of infection. The fact that hyperemeses occurred in the early months indicated that purely mechanical pressure of the where was not responsible. The uramus of nephritis as ruled out by the fact that the kidneys showed only a degeneration. The marked degeneration of the hver and Lidners proved that reflex unitation or by steria as not the etiological factor Changes in the organs of internal accretion ere probably the result rather than the cause of the symptoms There is no doubt that the hypertrophy of the mam man glands and the growth of the corpora lutes are due to the fetus and the placents. With regard to the suggestion that fully metabolism may result in acrdous the author states that in this case also the fundamental cause may be some form of ust xication. The fact that eclampata may develop in cases of hydatid mole in which the fetus has been completely absorbed, and the fact that eclampana the fettes may show changes umils t those in the

mother suggest that the fetus itself is not the source

of the interaction

The conclusion drawn from these considerations is that the symptoms and lesions of eclampias and the other daturbances under discussion are best explained as due to intorneations originating in the placents, the exact nature and mode of acts in of which we do not 3 t understand.

WILLIAM B CAMPBELL, M D

Breed, W B and White P D Heart Disease in Fregnancy Basine II & 5 J 9 3, thrym, 54, Hamflen, B. E. Notes on the Problem of Heart Diseases in Prejnancy Bets II & 5 J 9 3, drivin 657

These two papers are based upon a total of to cases observed through pregnancy delivery and the premount and systematically followed up

It was found that about 50 per cent of pregnant women who present cardac symptoms or agms do not have organic heart thesise. Heart discuse in pregnancy is almost invariably rheumatic in type.

The promous must be based upon the functional capacity rather than structural change. In their matter heart disease there as rusk of maternal death, prolonged distributy before and after delivery per manent dutability, loss of the child, and tendency to rheumatte heart disease in the child.

WALTER L. STRANGERG, M.D.

Campbell, D. G. Pregnancy and Heart Disease Canadia M Ass J. p 3 xm, 244

This is a report on 50 cases of pregnancy complicated by heart conditions which constituted 1 percent of all cases dimitted to the Montreal Maternity-Hospital from pos to 9 r. They are classified as follow.

M tral stenous antly seven cases. There we need to mornal labors and four maternal deaths. One of the deaths occurred before, and three occurred after delivery. Five of the other women are known it has deed of heart failure unknown year after confinement. The druger increases in tertally with subsequent preparances.

Mittral regurgitation, t enty cases. There ere sixteen normal deliveries. Only one patient showed aigus of collapse.

3 Aorde regurgatation a th or without mitral regurgatation, ten cases. There were eight normal deliveries and only 1 cases of cardiac embarrasament. 5 heroent preparaties showed no proportionate increase in the cardiac distribution.

4 Aortic regurgitation and nutral stenoids, seven cases. There as one normal delivery. All of the patients smilered permanent cyrdiac damage from the pregnancy.

5 Auncular fibrillation, ten cases. There were three normal deliveries and t o maternal deaths All of the patients sustained gra e cardise damage from the pregnancy. The hazones abouted the fibrillation to be the result of valgular leatons

6 Myocardita, trenty-eight cases There were fourteen spontaneous labors. See not the women deed at about the time of deli ery and others are known to have successful it heart failure subsequently. All of the patients showed delective re spoose to effort, but endocardita and perscanditas could be excluded as causes.

? Artile stenosis, fit cases Three of the patients progressed well. To had sociated myocarditis, ad one of them died one month after delivery.

8 Congenital lessons with the appearance of pulmonary stenosis, I o cases Both of these patients had a normal, easy labor

The author concludes with these generalizations Astroular fibrillation myrocardits, and mitral stenous are diensely affected by prepriation. Then woman with y one of these conditions becomes recruant, abortion and sternharison abould be done

without waiting for signs of breakdown. Women ith material steeous without myocarditis or previous heart failur are capable of bearing one or two children with sifety, but each pregnancy in-

pures the beart materially

If close tienton is paid to the symptoms and signs of heart failure—breakdown in cases of mitral ateroas; or he forestalled by the induction of labor or creatran section. When decompensation is present, the former is more satisfactors.

Mitral and sortic reguration, sortic stepons, and congenital tenons are not so seriously affected by pregrame. The endurance of the heart muscle of chief importance. CERTINE D HUNG, M.D.

Jones, J. B. Abdominal Pregnancy | trepres II

I the m jointy of cases of abdominal pregnancy there is a definite history of rigotiers in the carly

months. The drupous may be extremely difficult or err casy depending upon the stage of development. Preparacy of this type if produce the same general pecture as a normal preparator, but peculiar mental priors the location of the growth an empty attent, general pel is disconsister, and an entity uttente south eight of the deposits. The mans poast in the early stages is not (must report the signs of repriors.)

signs or represent the child the third popular in the internst of the child the third right is seek. The overait diagram areas must be handling in the internst of the child the

The author reports a case in which the left break higment is found spreading are the trans and the placests occupied the upper persons of the size extended down on the left to get of the own inpulse bread higment, and tree to the own inpulse bread higment, and tree to the houst proper to the month of the control of the

RILLIA B CAMPELL M.D.

Lenorment C., and Hartman Keppel, G. A. Further Contribution it the Clinical Aspects and the Transment of the Compileration of Tubal Programmy (Associal contribution is Pitade changes et aberrapratupe des art leur de la groucese tubure). Gyale et des q. p. q. p. 4.

The uthors briefly review forty eight recent cases of t bal pregnancy and discourtible pre-ripal anatomical types encountered, the treatment on plot oil, and the results obtained:

Of forty fire of the case reports which creative to the preparatory twenty me state that it was on the right aide and distrem that it was on the left. In three cases there was experted as leadabortion on one suite and because on support on a level of I takent two cases the preparator as which we pollers metry in ten, suchmare in ten, and introducid

two Is result-one of thirty-three cases a robal repture occurred and in more tubal bottom in one case there was a queriousable ovarian prepaise. There were eight cases of harmatorialying, it mil-som it symptomes of intraperiousal hymorrhays it with untraperiousal harmatorial principals. It is symptomes, from it in praisible enclyied statement.

toned hamorrhage and thereen a th encysted intraperatoneal hamorrhage

In the eight cases of barn toralpear two abdomth conservation of normal inal & terectomics adness and three silateral sulptagectomes ere performed. In the twenty four cases ith truptoms of ustrapentoncal furmorrhage tweet are lateral salpungectomies and two bil teral salps are tomoes were done Abdominal h sterretom) was done in four cases, in two on account of interstitud and on seconate of DESTRUCT pterus and in one on account of an associated salpungities on the opposit side \ draining was used the four cases th partially encysted intrapentonesi hamorrhige 1 abdominal hysterector its ilateral salpangectorner ere performed electes unsufected cases tilb each ted artra perstoneal harmorrhage 6 hilateral sa'p agectomes, one belateral salpengectoms four h erectomara, and one posterior olpotom and salt are tomy by the biliminal root ere done (+ in Identil infected cases one as subjected t hysterectorry th agual draining ad the other to postenor colporom with behavial packers

No mention is made of microscopy for absolute vertication of the diagnosis. A recognizable embry or fetus, as found I only eight cases.

In the total number of cases reported by the authors t dat (eighty four) the mortality was 7 per cent Sar Toke of Parks, M.D.

LABOR AND ITS COMPLICATIONS

Lerant and Portes Harmorrhages In the Nerve Centers in Eclampsia (Rémorrages des centres servers an cour de léclampsie poerpérale) Guid d'étil 9 3 vu, 33

At the Bandelocque clinic eclampus occurred in 183 of \$5,453 obstetional cases. There were fideath from crebral hemorrhage, a morthity of 7 per cent. The authors it dy is bused on forty one cases of hemorrhage in eclampus. Inch have been reported in the literature and fiv. unpublished cases.

buck they report brieff with the utopix findings. The hemorrhage occurred in the meninges in to ty case. In tell it was cerebro meningeal in elevin, purely cerebral, in three, peduncular in one, bulbo-

protuberal and m one diffuse

Death may occur suddenly with marked cyanosis acrospaned by hemplega or persistence of coma with themal disturbances. If the patient survives the attack, hehe a rarely the case, sequels such as hemplega with or a thout fever may persist befined and complete hemplegary means cerebral hemorrhage and incomplete or transitory hemplega a menugal condition. The pathology of the himorrhages is obscure. I certain cases sphilitize todatents seems t play as important role. Adultot or proved case of medullary hemorrhage seconted the champan has been reported.

Groves, A. Syncope and Shock in Labor (De l'état syncopel et de l'état de choc chez les ac conchées) Res franç d'gréfe et d'ébit 0 3, xviii

SAL TORE 1 PALMA, M D

Obstraced shock is discussed on the basis of electron case; the uthor practice in which defects of profine theory are recongregated injury of profine harmorrage and there was no history of profine harmorrage and there was no history of profine harmorrage and shock are closely related in these cases and no tempt is made to differentiat them cases and no tempt is made to differentiate.

Seem of the eleven cases discussed ere those. Frompare Of the four multipare three he d had from seem to thatten preparative. In four cases those as long and tedour forcepa ere employed right times. In the cases chloroform as used and in three cases the placenta as defer ered triuncally long of the infants employed less than a takes from the cases of the infants employed less than a takes four employed.

4 kilos or more

Predayoung causes are nervous temperament prevous conditions such as conv lescence from an acute infectious disease erwork and mental and physical depression in the celas previous to deli ery a difficult and long labor in ection of the size, a difficult instrumental extraction, prolonged es thesis, and precipitat delivery with forced dilatation of the cerrur.

473

tion or the three complexition has been noted shorth, after the delivery if the placents, but it may occur at any time during the labor or its or three hours at easy time during the labor or its or three hours alterward. The symptoms are of two types the syncopal and the cardiac. In some cases the condition of the subscription of tone prod cits. On the basis of the publicity the author during mashes three types of postparition shock, (i) zero out the subscription of the contract of the mass of the publicity of the subscription of the contract of the co

The treatment and prognous depend o whether the shock in due to a uterine himmeritage, a rupture of the uterin, or cardiac collapse. As rul the prognosis is good. The treatment is generally the usual measures employed it combot shock. In the eleven cases reported there was one death

SAL ATORE DI PALMA, M D

PUERPERIUM AND ITS COMPLICATIONS

Phillips, J. The Puerperi m. Precisioner 19 3 cx,

It is generally assumed that the purpersum lists for four ceks, but the patient should not consider berself normal for three months after confinement Many obstetnessum order a douche after the

introduction I the hand but except for an occasional douche I hot water t promote contraction of the uterus after the third stage douching to unprecessary in the normal case. I cases of offen an discharge with fever washing out with a double channel cannula is of ery great importance.

Before the patient is allo ed t get up a pel in examination should be made to accertain the size and position f the teru. T restore the normal position postural treatment and, whe necess to a flodge passive retired.

The time honored castor oil on the third day has been displaced by colorynth and byoncyamus with belladoons and ux orners. After evacuation

general dict is gi en

The ther decases only complications of unsula character. Among these mp plagmans allo dolers bacterial infection thrombous, which is considered one special and expectably common and troublesome in the harmorizonful crisis embolism from thrombous it he right safe of the heart in their crisis of the heart in the large contributions, such as an expectation of the contributions, and hyperia and severe after paints in the contribution of the management of the third stage complete acceptance in the premare harmations of the violations of the premare harmations of the violations of the contribution of the

fibroids ovarian tumors retroversion soveness of the nipples and disorders of metarlism. Among the rurs complications in the author's cases were atone in the kadnery gall-atones, appendictus, epidermic indicesses, scarlet fever messles, chucken pox,

and typhold

Complete internation of the perincum aboud the repaired at once. Humantoms of the vall connectimen requires accision. Furnishis generally cause to symptoms but may depenent or become strangulated Orasina tumous are unsully removed during personancy. Sorecess of the uppless during inclusion is best reluved by the we of a lead myple abbid. An abscene requires early and first incuson. Disorders of microtunion are chiefly retention due to the traums of problemed labor.

The author formulates three main conclusions: r. Streptococcus infection is preventable

s. More trention should be paid to infection by becillus coli

3. The pusyperium is almost pathological and continues so for at least four weeks William B Carrenti, M D

Frankel, E. Gas-Bacillus Infection of the Uterus (Uther Gasbrand der Gehermatter) Anh f path Annt 923, ccris, 35

Physometra—which is not to be confused with tympanic interns—as caused by the Fraenkel gas bendlin. Seven cases are reported in detail with a discussion of the manner in which the gas bacillos infection in the insooth muscle of the interns separates the individual muscle elements and causes

throshous in the venses. The findence statistic only the gravid or postperal uterus, almost always follows cruminal aborton, and runs an unswally rapid course leading to death in a short time. Creptature of the uterus can be elselited by palpaton through the abdomand all. The gas infinition does not always affect the entire organ, as frequently it is localized. It is particularly process a frequently it is localized. It is particularly process thrombooks attainst its chef site is in the susceidation of the control of the cont

The article is concluded with certain chancil observations in the control in fail gargets of the uters caused by the gas bacillas there is a poisoung of the organism does to the absorption of tone maternal from the theare botten does by the gas bacilles, and usually, in additione, betterman The ameroide gas bacilles and usually, in additione, betterman The ameroide gas bacilles does not utell produce to the state suggesting in matter of terms and passes of the size suggesting in mattered externs and cancers. The entire may contain the same product of blood destruction as the serum

Removal of the diseased uterus does not greatly improve the prognoss, but Bruett was able to sa lefe by this operation in one case. Fraenkel strongly recommends the diministration of Fraenkel series. Bases (D)

Ens. E. A Study in Paerperal Morbidity Sery Gyace & Obst. 0 J. 2021 1, 797

The author's study is based upon you can records one rong a period of popularisty firm years. Histories without a carried description of the delivery and a record of the persperal tengenture range were excluded. Of the groop bone case, approximately 1 you were those of pranspared is you those of maintager. Of the out-practice case, you were those of primingers and 2,500 those of multiparte. The results of this study are mentionated at follows.

as follows

The total merbidity was \$6 per cept in the

house cases and a per cent in the out practic cases.

a Morbidity was nearly t see as cosmon in primipare as in multiparte.

 The total morbidity percentage has show steady decrease by five-year periods both in house and out practice cases

4 The total mortality from poerperal sepsis was ρ dentits in 10,000 cases.

5 The morbidity in non operative cases was 5 5 per cent in cases delivered in the house and 1 6 per

cent is out-practice cases

6 There was a definite increase in the morbidity
in the non operative cases of pranipars as compared
with those of multipars, and the influence of long

labor and repeated vaginal examinations can be traced.

7 There was either bacteriological or definite clinical evidence of genomerous as an endogradifactor of the pursperal infection in 6 per cred at the

prindparse and so per cent of the multiparse as In large number of the patients, varying from 33 to practically 75 per cent of the total number the course of the reaction was very mild and no default ethological factor could be feared.

9 The morbidity percentage has shown steady drop by five-year periods in son-operative cases, in both house and out practice cases

TO The mortality rate was in \$36 house cases and some in the out practice, non-operati cases

The percentage mortishity is cases subjected to operatin procedures was 0 per cent to the house cases and 8 per cent in the out practice cases at The incidence of notionerals a mortishity

15 The incidence of postoperati s morladity
was from two t four times as great is primipars
as in multiparse

13 The drop in the incidence of postoperate morbishty has been less than that of the non-opera

to morbidity 14 I their relation t morbidity the operative procedures above the following sequence that neitering double ensoin of extraction with crasiocomy minutal removal of the placents following some other procedure the unitron of high following some other procedure creates activat reason and extraction high forceps and forceps hereta. OBSTETRICS 475

extraction low forceps, manual removal of the placents the insertion of a bag. I the out practice cases the sequence was practically the same

15 The operative procedures which have been followed by death have been the more sensors protonged type Multiple procedures have been common C II D vis, M D

PURPERIUM AND ITS COMPLICATIONS

Phaneul. L. E. An Obstatrical Case Presenting an United Group of Complications. Bestes M b S J 9 a circum 94

Phaesed's case was that of a woman 3, years of age who kad been married into years and had bud two children and one macarriage. The first child as born years latter marriage Delivery was effected by medium forceps estraction after twenty four those of labor. The second delivery also was difficult and terminated by the ose of medium forceps after servation hours of labor. The penneum was builty lacerated and poorly repaired. Subseq only when the servation of the property of the property of the penneum was builty lacerated and poorly repaired. Subseq only whether the penneum was builty lacerated and poorly repaired. Two years after the penneum of the penneum was builty lacerated and poorly abdominal prapersion. Tollowing this, the patient had a macarriage and was cruetted. Just as the was recovering from the effects of the harmorrhage she became prepaint for the fourth um.

The early part of the pregnancy a uneventful but toward the seventh month she developed frontal in usins, trachestis, and elling of the ankles The following month, January 1922 albumin and casts appeared in the unne. A few day later the output of urine diminished, the ordems became more pronounced, and marked tenderness developed in the left groin. Examination on February 7 revealed fixation of the uterus to the anterior abdominal wall and extreme thinning of the nontenor utenne wall. A large child presented by the left shoulder in right position. The cervix had been pulled up to the promontory of the sacrum and the child abdomen was resting against it The hemorlobin was to per cent and the red count .225.000 There was thromboan of the sanhenous and that ems with redems of the extremities. The putrent had also a nasopharyngitis, tracheltis, and bronchitis with cough. The urine at this time

showed albumin, casti, and blood. The distortion of the otterns unde pelvic delivery impossible the anemia rendered bloominal delivery impossible the anemia rendered bloominal delivery diagrerous and the respiratory infection contra indicated general anesthesia. To overcome these difficulties it was decoded to give a transfaron and to do cervical cesarram section under spinal anesthesia. Four hundred cubic centimeters of whole blood were transfassed. When the abdomen was opened it was found that the entire loser uterine segment was walled off by adhesions. The child, a male is uptime of firs. If or, was delivered through

male w ughing o lbs 14 oz, was delivered through incusion in the cervix. The patient completely recovered after a stormy convalencence.

HARRY W. FINE, M.D.

GENITO-URINARY SURGERY

ADRENAL, KIDNEY AND URETER

Jaff H. L., and Markee D.: The Influence of the Separated Corter on the Gonade of Rabbita. I The Effects of Supraremal I fury (by Remode or Freezing) on the I terulitid Crits of the Grapy Leep Mod 9 3_Extra 93:

Overy J Exper Med 9 3, xxvvis 93

If L., and Martine D. The Influence of the
Supravenal Corize on the Gonside of Rabbits.

II. The Effects f Supravenal Injury (by Removal or Freezins) so the Tubules and Intertitlal Cells (Leydag) of the Testia. J Exper
Med 9 3 xxvis. 7

If a well known the hypertrophic charges occur in the internital cells if the overy and the supra read cortex to certain animals during pregnancy and cortex to certain animals during pregnancy and the possible of the suprassional cortex. In the a thora experime to moderate or marked ovarian enlargement was obtained on the marked ovariant enlargement was obtained as a partial cortex. In the substantial cuts a deditional endeave regarding the functional intervition between the supraread cortex and the intervition to keep the superior of the marked could be intervited to the cortex of t

TRONG I FISTO VI

Ballance II A. A Cost of the Right Superrenal Capsule Removed by Operation, Bril 11 J. 923, 1, 926

Dring the examination of the behavioral control preceding gastropy horitomy for an oldescuring ulcre of the first part of the chooleous, a large systic tumor of the right hypochoodrium as found. This as trached only slightly: the lattery. The kadnes is displaced downward, and the liter to the left and does ward. The removal of the cyst was not deemed advisable following the gastropyquoostomy. The passent made: attestactory recovery.

Three months later there were definite indications of tumor in the ght skie extending down from under the right costal margin

With the patient on the left sale an incision as raide below the 1 lift in 1 cyrst meaning approximately 6 by 9 in was exposed. This as improd and then peeled from 1s firm attachment to the peritoreom and its trasse in the neighborhood of the criterial column tached to the kalney. Temporary drainage was est blashed.

The east contained pts of thin, amber colored, odoriess, turbed fluid which was neutral in

reaction and became sold—here it as boded. The inchances of the walls of the 15 pt ranged from 16 at to that of writing paper. The outer surface of the 0.24 was mooth except for addresses and a regularly distributed, 15 hos nodales varying a pietrom 1/4 to 3 hu. The outer earlies of the exit was rough and video at park, and in certain areas was rough and video at park, and in certain areas was howeft exall the presence of addression. Secon through the y-cliow nodules revealed adressil contact cells.

The method of origin of the crit is uncertain. Hemorrhages int cysis to frequent and croom for the reddish brown contents usually found Cysts of the suprarenal occu is the lower unaison. The symptoms may be only sense of following the side or light dynapsylic symptoms without part to the content of the cysis of the side of light dynapsylic symptoms without part of the cysis of th

and the patient may become enricody if.

The diagnosis is difficult in the tensor or be palpated. Then, modulty from use t side is greater than that from how the Accist or the right and penshes the kidney do said the bet the left and don. I vegat on the left ask drapters the spikers the spikers and the tail of the pancreas to the right. A rathic hole hydrated by the deficient as until it supportes. A british of the other parts are the spikers the spikers and the said of the pancreas to the right. A rathic hole hydrated by the deficient as until it supportes. A british of the spikers is sport souls and punctula.

of its bouilly more rentrally placed.
Complet removal of the 90 st is indicated. This is not easily done through lumber forevon believe the tellth in The opening issely be included if accessary by extending the onision or reset; is the tellth in band draining a scally entitlethed. Dorna, in 90d, ga references t cause recorded the biterature up to that of t and this strate.

adds the cases reported since then

Cabred R G. Suprarentil T thors—Suprarents—ta (Les suprarents) Science (M) 9 3, 521
74)

Attention as first called to the superareal of the orerum shalow tumons by Gravita at M. Cabred discovers the arouse sh see through a high caches the conclusion of each tumors as pursed of eaches the conclusion that the pathograms or school by 6, in an occreta which will be a superare the conclusion of the caches the conclusion of the caches the caches and the cac

Guyot, J. and Jeanneuey G. A Physiopathologic Study of Kidney with a Double Ureter (Ende physio-pathologogic dun rem & urreter double) J. Fard and d. dur. 0 3, Xv. 8

Enhop depically the kidney is formed from two proches, one of mesodern which forms the pursue lyms and essels and the other of endodern which forms the unary exercitory system. The seco do peach comes from the allant is near the walfinat body penetrates into the embry. Luthey and divide to form the pelvis, cut, ces, and tubelle. If this there was to be a superior of the pelvis, and the second to the period of the pelvis of the pelvi

and of its neighbor.

Hinner in double kidney only certail part in yie diseased of conservati surgery such as partial perpectoring may be a fincent. A case of this had in reported in detail. Attention is called it the functional differences in the partial original kidney flowers and the first original for the property of the highest when the treeter is of the highest partial original gray not be shown in the bladder.

Киплосо Sилио, М D

Owinty W C Hydronephrosis, J Unit 923 x, 45

Hydronephrous associated with an anomalous artery crossing the areteropelyse juncture is not very infrequent and show a definite symptomat logy

This recal artery may be pertuilty doubled (easily branching) or entirely doubled throughout to course, or the vascular supply may enter the kidney or the things at either the action of the bild at either one or both poles, with or thout a tende (the normal hubs. With polar seculiar graphy the artery supplying the lower renal pole is frequently found close to the uncertexpelves juncture running antenney or posteropity to the pelvia or to the presence I two casels, entering the lower pole on each node of the renal pelvia. These attentions weakles my spring from the acota or freeze the pelvia for the pelvia country to the pelvia or on the pelvia or or of the pelvia or of the pelv

Aside from niertion, the outstanding feature is the dilatation of the renal pelvis, which varies in capacity from soo cm to liter. The pel sc wall undergoes hypertrophy. The reteropelyse june ture show neither stricture nor valve formation, and the ureteral opening is nearly normal position At the ureteropely ic juncture these structures are in mum to relation t the aberrant casels, and there may be one or t associated berrant eins, the whole making definit band like structure artery may be ery small or carry t least half of the total blood supply The plexus I vasomotor nerves a not associated the the anomalous essel t the lower pole unless there is no essel ent ring the hilms, when it is seen along the course of both upper and lover polar arteries. The renal purenchyma is thinned in proportion to the extent of the hydronephrotic process and shows bosses over the dilated

calyces within. The tubules are thinned and flat tened corresponding to reduction of the renal function. The unaffected part of the ureter is normal.

The pala localized in the ladney region occurs in attacks waying in frequency and increasing in ascranicy. It does not radiate much except it the height of an attack, when it may be referred along the course of the ureter. In acute attacks nauses and omiting are common. The acute attacks comes on rather suddenly reaches its miximum within few hours and then subsides, kewing heavy aching sensitio which persists for several days. During the intervals there may be a be a ydraging feeling and certain movements and positions of the body are taudious.

With the great pelves detection there may be a pelpaldic tumor during the action attacks, which subsides with the pain. As rule however neither kindery is apliable. During the attacks complaint is made of localized pain and tenderness. Urnation may be normal or during the attacks there may be frequency. The combined rutal function is straight quite normal, and unadays recals only very slight true of albumin and few blood cells. A nor mal temperature and kenocyte count are character ists, but slight transmit pyrems may occur. The green'd conduction is instally extended.

general condition is usually excellent. Cystoscopies tamin itom reversis nothing abnormal. In one kid-cy there as a definite interference with function. The hydronephrotic side show a continuous rather than an intermittent flow of unner and py-dography reveals distention of the neil as and calves.

The treatment is surpoid and of three types () rephretoracy, which is reserted for kidny, with loss of function (4) ligation and section of the aberrant need which is justified only when the inharpment is slight and the other ressels are dequate and (4) plastic operations on the dulisted pelva it the ureteropelvic juncture. The ideal operation on a well functioning luthery is elimination (f the infinistic relation between the aberrant artery and the except plassing, as by fire section of the uretre followed by it is implantation in the most advantageous portion of the pelvas way from the seed.

Lotts NEUWELT MD

Margoun, J A H., Jr nd MacCarty W C. Ma

ligns t Neoplaria of the Aldrey Occurring in Infancy Surf Grace & Our 9 J xxxx, 78 There is much confusion concerning the histo-

general of the mixed common concerning the histogeneral of the mixed tumors of the hidney found in children. The study reported in this article was made on seven renal tumors removed from neven children, the eldest of whom was y vests of go and the youngest so month. The tumors are found to be composed of one type of cell in various stages of differentiation and w. the arting amounts of conoctive tasses reaction. The authors classified them as accurronness of the subconstitutives.

Such tumors are of varying degrees of malignan c) They have both undifferentiated and partially differentiated tissues of apparently the same type of cell, and a benever there are unchiferentimed crits

the processes is unformable

Three of the seven children died authin a year after the operation t are all but not ell, one year later one is perfectly ell eachteen months after the operation and one cannot be traced

Delore X and Dunet C. A Peripephritic Alocese Appearing First on the Left and, liter an I terral Is Year on the Right Side (Paleganea périnéphritique apparu socress ensest à droit et à groche à un au d'astervalle). J'éparé add ri CAN 10 3. 27 01

Perinephtitic abscess following general infection or staphylococcus bacillamus is usually indateral In fair, t cases reported in 102 there was no case of bilateral localization. In the few known instances of bilateral intol ement both kulpeys ere affected almost amultaneously or the second as local ed only a few d y after the first. In the case reported in this article the interval between the lived ement of the tw sides as more than a year and both attacks followed a staphylococcus infection. The patient as a oman sa carsold he in November 1930 had a furuncle on the left temple and on the dorsal surface I the left muldle imper In April. 1011 while poarenth in good health, she suddenly experienced pain in the left lumber region. There as no fever or un un daturbater la lub to

she entered the hospital because of an Ihng in the lumber region to operation, July 5, a large quan-tity of pus as evacuated. The kidner appeared int ct. The putient was discharged from the poweral July as

On August 8 101 she returned with semisymptoms on the right side. Incluon emptied about a later of pas Cultures showed pure staphy lococcus aureus. The patient stated that bout t before the second pertrenal absens she had had two furuncles on her neck for about two eeks Krisson teers, VI D

Ginliani, A. Double Urerer, Tuberculous Lidner Nephrectarry (Lectra double reas t beredens, pephrectorne) I share said at he pay av 97

The patient, a 58-year old woman, had all the cardinal signs and ymptoms of read tuberculose On cystoscopic examination two areteral openings were found on the left side. The struct from one contained a large quantity of pes, link that from the other as clear Total nephrectomy as per formed

The ladney was found to be di ided sate two parts, he of buch was surrounded by pertrenal thickening and adhesions. After removal the mass had the appearance of its kidnes united by an arthmus. The tuberculous was limited to the lower portion There were two preters and to prives The operator regretted that he did not limit the operation t partial perhirectoray \$

LELLOOD SPEED, M D

BLADDER, URETHRA, AND PERIS

Offre, C. Eledder Hernis in Infancy (L'erus della crock and infrared) And the of day rose to

In the literature, Ours has been able to find only sixteen cases of bladder bersus in young challers. These he reviews besefy In this article he reports a case of his on and one unpublished case seen by Maraginaso All of the mateen patients are rider 12 VOLUS OF ART.

The following conclusions are drawn

s Bladder berson in children is very mire. Its frequency is 0.46 per cent while that of cystocole is adults nes from 1 to 3 per cent. s It is most common in the forwing remos (No

per cent of the cases) and next most common in the emoral region (1) per cent of the cases) It occurs more frequently in males (64 5 per cent) that is females, and on the right side (80 per cent) that of the left

1 It may be paraperatoned or less commonly extrapentonesi. A case to which it was interpre-

tones! has been observed

4 It may result from (1) congenital i ctors, such as weakness or thonning of the bernial ring or absormality in the form or position of the bladder or () acquired factors, such as inflammatory processes, adhenous between the bisddur and heroid sec, or presescal hoom ta, which cause first too and traction

5 The ymptoms are very vagor
6 The dugmous of cystocie in young children
has not or been made before operation
Carbonia which should suggest

7 The operation findings which should suggest the condition are (1) prevened apoen (2) a grayath-red color of the suspected hody which to pulpation gives the sensation of two surfaces should apon each other (s) the direction of the pedick toward the median fine and toward the puber (4) the presence in cases of diverticulum, of collir or an athmus at the hermal ring (3) the possibility of pulpaying in the midst of the organ the point of catheter introduced through the orthra, or an a crease in claims of this body on the introduction of field mto the bladder and (6) the occurrence of

ermeralar contractions \$ The complications of cystocels in infancy are

strangulation and calculus

o The prognous a good The treatment is resection of the hersial me. of any exists, and of the prevenced bromz, followed by reduction of the hemiated bladder. A tree vestal diverticulum must be exterpeted.

If in the course of rachcal treatment of herma in child, a thickens g of the sac or hooms is found, a berm of the bladder should be considered.

The author true and that of Maragliano are the only cases of femoral herms of the bladder is young chikiren so far reported All others were cases of The uthor's case is the only meruma) bentus reported case of bladder bersus in a female

D A BOOW

Joly, J. S.: The Operative Treatment of Vesical Directicula. Proc Roy Sec. Med Lond 19 3 IVI. Sect Urol 11

Excision of the sic is the only rational treatment of vesical diverticulum. No single operation is suit

able for all cases

Excision from without the bladder may be transpenioncal or extrapenioncal and is best suited for do erticula situated high up on the lateral walls and those occurring at the urachus

"plutting of the bladder all down to the orifice of the diverticulum is indicated when the divertic shum is attracted low down on the posterior wall of the bladder when the walls of the bladder or divertic alun are thick and inclustic, and when there is marked pericy statis.

Intra esical operations are dangerous

Invarination of the sac should be performed partly from within and partly from without the bladder Combined in aguation and inversion of the sac as a definite advance on the usual invarination method

If prostatic or urethral obstruction is a complicat ing feature, both conditions should be treated at the same time. If this is not feasible, the divertic ulum should be removed first and the obstruction treated later A preliminary cystotomy usually does more harm than good

The presence of a calculus in the bladder or the sec is an indication for excusion of the diverticulum. Usually the ureter hes m close relationship with the neck of the sac and must be guarded against

injury during the operation

The contents of a diverticulum cannot always be evacuated by cathetengation. The unne left behind after catheterization called concealed residual a often considerable in amount. The presence of concealed rendual name vitiates all renal functional tests carried out on the bladder urine. Therefore it is necessary to catheterize the ureter or to estimat the blood urea

The presence of a doverticulum as best diagnosed by cystoscopec examination, and the size and position of the diverticulum are best determined by means of cystograms LOUIS KEUWILLT M D

Checheika, E. F. Syphills of the Urinary Bladder Syphila der Hambiese). Cares Un Leik. ger hit, £25 \$55, \$84, 903

In 600 cases the author examined systoscopically he found fourteen cases of syphilis of the bladder To these he adds more cases of a senses of 1 5 eranned cystoscopically in the Crech dermatological clinic in Prague In all f the twenty three cases the Wassermann reaction was positive and auti syphilis treatment ga quick results

The signs of syphiles revealed by the cystoscope included hyperamia of the bladder cystitis, papules, sicers, spherical tumors (gummata) and similar leasons. In nine cases the mucosa had most pe cubar appearance, being sprinkled with mihary and larger nodules of the same color as their surroundlags. This pacture resembled that of shagreen. Another form of syphilis of the bladder not previously described was the formation of a moss-like mulberry-shaped overgrowth of the mucosa resembling that noted in billharriasis of the bladder (two cases) Tertiary formations (gummata) were seen in five cases and ulcers in seven. In two cases the ulcers had caused the formation of bladder fistule one of which led into the intestine. In one case a pulsating tumor was found, apparently an ancurism of a esical artery due to syphilis.

Of 600 cases examined cystoscopically since 1011, all showed considerable trahecular hypertrophy and a distinct reaction to anti-syphilis treatment. In thirteen there were parasyphilitic changes in the bladder and in seven the vesical tonus was increased A ne showed a positive Wassermann teaction and three a positive Bellost reaction. In five there was a history suggesting syphills The thirteen cases of parasyphilitic conditions included two cases of tabes increases, five of tabes dorsales, one of recudotabes, and five of progressive paralysis. The trabec ular hypertrophy in these cases cannot be ascribed to purely mechanical factors as it was associated chiefly with specific trophoneurotic disturbances.

KDUIZ (Z).

Rochet and Thirenot A Case of Total Cystactomy in a Noman with Carcinoma of the Bladder (U cas de cystectorme totale chez une femuse attende de cancer de la venue) J d'arel. mid. el 9 3, EV 1

The patient, a 58-year-old woman, was operated upon in or for a tumor of the hepatic flaxure of the colon. The growth proved to be an epithelioma. No intestinal disturbance followed the operation Two years ago frequency of urination began and in six months was followed by harmaturis. Begin-ning in April, 9.2 the urinary frequency and harmatura with casts became very troublesome. Examination of the kidneys was negative cystoscope revealed a normal right ureteral orifice the left ornice was masked by vegetations. operation was refused, radiotherapy was given for eight hours. Subsequently pieces of tumor tessue were wooded, but there was no relief from frequency hematuria, or pyuria. A cystoscopic examination in July showed the tumor spreading in the fundus of the bladder

On November 14 the bladder was exposed and liberated without doing hysterectomy The ureters were severed a fingerbreadth from the neck of the bladder and the pentoneal bladder covering firmly pohed on the front of the sterus. The left ureter was implanted in the abdominal wound and drained by a preteral catheter. The right pretar which was lost in the neoplestic mass, could not be freed and was left at the bottom of the wound. The wound was drained. At the present time only a small fistulous opening remains and from this the urine drains into a receptacle. The case is remark able as the patient had had a cardinoma in two different areas in the course of twelve years.

In the operation performed by the authors for tot i termoral of the bludder has active in operation surfaces of the bludder are directed from byterior surfaces of the bludder are directed for the intent lagrancity, which are left are cut between corecpt, the unchara is cut of about 1 cm from the bludder neck and the 1 o surters are sectioned sorthat the base of the bludder can be simpled sorthat the base of the bludder can be simpled as that the base of the bludder can be simpled as Ils terectomy may be done the same time. The unreters may be transplanted in the bloost, but there is less danger of infection when they are implant of as the operation would

Kriloco Serra. M D

GENITAL ORGANS

Lernitzer F ad Zenter C. Myomatous and Admost constous Hypertrophy of the Prostat (I cher mionalose and admost constous t takypertrophs) Zitcle f and Cher 9 3 xt 37

The athors has a found the hterature we ating in precise inform tion regarding the topograph histogenetic, and pathoganesis of the putely or preponderstunch fibrums orgatous form of hypertrophy f the prostat | libough cry exhaustle work has been done on the adenomyomatous form, purisc ult | by Tandler and Fuckerianell Therefore they here present in some detail a number of the cases of fibromy ornatous prostatic hypertrophy affect ug the middle lobe which were observed on Tuckerkandla service. Chincally these cases presented severe symptoms of ad need prostatic hypertrophy with complete or incomplete retention of rine but on rectal examination the gland was found t be only slightly enlarged though hard, not nodular. Superpublic enucleation as ery difficult in every instance in some areas it could he done only alth the knif and usually not t belo

Excellation of scale sections— us cases received prepoderance of amount number and connective tissue over the glanddar portions both were at anged in transla and broader bands and frequently also in errormsembed norther bands and frequently also in errormsembed norther to that in a reality eribdin fifteenable being pouge rich in medical and in the first and the section of the se

ing goabelium; many forms
Coppora amplices or their prehimfiany stages,
granulur and flakey concretors, were found doposited in greatly dished gland does lined with quita
flat epithelium or first in the stocking with quita
flat epithelium or first in the stocking deposited in
the listed flatury areas on understand deposited in
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bands of smooth muscle showed so signs of infunmation therefore they could not be timboted is inflammatory processes. Under certain circum stances, however, these snight explain the origin of new connect by these origin.

As regards the genesis of this form of pensistic to perstrophy the authors agree with Virthow and Kebs that it begins as the giandiar form and be comes gradually associated with an increase in the stroma

Streems, A. R. The Differentiation Between Teberculous and Non-T berculous Inflamma tion of the Epididymia. J. Lpd 223 x, 23

The author discusses only cases of epithdyantis in which the disguests was confirmed by automospherianisation after operation. In sense of its such cross the condition was tuberculous in several four sample information in thirty-fire and syphism in

lour All of the patients arb tuberculosh or sample inflammation of the epididymus complymed of some Ing or min Seven of the former and four of the latter had urin in symptoms. In as per cent of those with tuberculous and 11 per cent of those walk sample faffammation the condition was bilateral. Over 13 per cent of the former had had pressure operation, but none of the latter had been operated upon before. Thatty-eight per cent of the tuber culous and 6 per cent of the non tuberculous had a decharging sites. The patient ago was apparently of little importance. A history of trauma is given in I per cent of both groups of cases. Nesserva infection was not an pparent factor T berculous chewhere as found in therty t cases in the tober culous group and in only one case of simple inflam mation

The doration of symptoms was less than two cets no per cert of the case of it bereadons and at per cent of the class of simple inflammation less than one month in n ap per cent of the former and 45 per cent of the latter and between one and three months in pp per cent of the former and it pre-cent of the former and rip per cent of the former and rip per cent of the latter. Beyond three months, the percentages were nearly selected.

For one mouth the invol mount of the proteins and seminal vessiles was about the same in both groups but after that time the tubercation groups but after that time the tubercation group showed more marked creases while the sample type improved. The involvement of the vas was about the same on both proups and not of much aid in the daugnosis. A busided was was found in seven tubercation, and there no rephercations patients.

The loser patients ith explains as lastones of puniss, increasing enlargement of the testicle of from fit to twelve meaning duration. Rectal examination was negative. There had positive Wassermans resistion.

The following points are brought out in the conclassions

t Double epschdymits slightly favors tuber

- A previous operation almost invariably means tuberculouls 3 A same peralsting longer than a month is
- probably tuberculous 4 In over 90 per cent of cases tuberculous else-

where means genital tuberculous

When the condition has been present longer than month rectal examination is of some aid in the diagnosis. After six months the condition of the prostate and exicles as of great importance in the diagnosis, for the longer the duration of the condition the greater is their : volvement

6 A simple inflammatory lesson may last as long as a tuberculous lesson C D PRIME MD

Scaderlund, G. The S. rgical Treatment of Tuber culous of the Epidsdymis (Bestrag zur Frage neber die chrurgische Behandling der Nebenhoden T berkulose) Lite having Scene 9 3 lv 515

The point of origin of the tuberculous process is of great importance with regard to the method of operation. When the patient is first examined the testucie, was deferent, seminal excles, and prostat are usually affected and which of these was first in olved is difficult to determine

Some surream believe the infection spreads upward from the enadedymus and there! To remove the testicle with the epididymia. Others contend that it organizes in the prostate and spreads downward. and therefore remove also the prostate seminal vendes, and was. This extreme method, however has pever gained ground because simple custration gives satisfactory results. In the author, oranion the epididymis is the primary sits of the disease and the removal of the prostate and vende is unnecessary

Two schools of operation have developed, the radical, which was sponsored in Germany and folloard in 3 eden, and the conservative (simple epichdymectomy) which has been followed in America and France E en the conservative operator however removes the testicle when at operation it is found diseased on macroscopic examination From the chinical aspects I tuberculous I the eps didymia it appears that epolicymectomy is indicated rather than castration since the disease seems to be confined to the epididymus. The Germans castrate on the assumption that the testicle is always found myulyed on microscopic examination, but experience has aboun that if it is only microscopically affected, it recovers after the removal of the epidalymis as does the bladder after nephrectomy Recently German surgeons seem t incline more and more toward the American-French method of simple epiddymectomy Castration means mutilation even though in many cases of bilateral cas tration the hisdo, sexual power vigor and vitality remain unchanged. The author tabulates the contrations and epididymectomies performed in his houstal in two tables and gives the case histories

In the General and Sahleren Hospitals in Gotenburg 8 eden, fifty two cases of tuberculous epididy mins were operated upon in the period from 914

There were thirty seven castrations, to rozo t enty four epididymectomics, and nine combined operations. The first three years after the operation are the critical ones, and for practical purposes a cure at the end of this term may be regarded as permanent

Following the t enty four epididy mectomies on t enty three patients there was only one recurrence, but there is o reason to beheve that the method i operation custration or epididymectomy causes any difference one way or the other in the number of recurrences or the mortality rate. There were three deaths, all I which occurred within three years The immediate mortality of these operations is practically nil and the risk of leaving the testicle is extremely shight. In most cases it is later found healed, a fact suggesting that the especially resistant t tuberculous. After custration healing is perhaps

little emoother and fatule occur slightly less fremently but the length of the hospital stay is alike and if castration is avoided the internal secretion of the testicle is conserved to make up for these small drawbacks

The author summarises his conclusions as follow I a large number of cases of tuberculous enduly mitta simple epididymectomy gives fully as good results as custration. The mortality recurrence, and length of hospital stay are equal. Consequently epi

didymectomy should be preferred because it saves the testicle

I old men custration is indicated because the loss of the testicle is of minor importance. In young men the testicle should be spared if on palpation during operation t as found to be of normal size and consustency but custration should be done if the surrounding soft parts are tuberculous and fatulous and the testicle on the other side is normal.

The patient wishes should also be taken into consideration. He may profer a radical operation with the loss of one testicle and short hospital stay to removal of the epididymis alone and longer

hospitalization

body

In double t berculous epididymitis in which one aids is severely affected and the ther only slightly involved the former should be operated upon radically and on the better side the epididymu should be removed. If both aides are severely affected and the testicles appear sound, bilateral epidisymectomy should be done and the testscles spared

When one testicle has been removed in a previous operation for tuberculous epididymitis the other should be spared if possible, either entirely or m part. If there is doubt as to a bether a radical or conserva tive operation should be done the patient's general bealth should decide Castration should be done if there are signs of tuberculous in other parts of the

Fixtule or abscesses alone are no indication for castration provided the node found in the epididy mis is circumscribed and the rest of the epidelymis ppears normal or the entire epididymis is enlarged and covers the testicle like lumpy cap. In such

cases a quick curs with conservation of the normal testicle can be expected Epididymectomy does not ppear t cause atrophy of the testicle

As a rule tuberculous epublymutis can be easily differentiated from acut epichdymitis, loes, and tumor but is differentiation from chronic, non specific epididymitis is difficult. Especially ataphy lococca, descending from the bladder along the urethra, cause chronic epidislymitis that should be excluded before operation by a careful bacteriological examination of the order. Of sure file cases of chronic epididymitis operated upon as tuberculous, filty-t o were found to be tuberculous, six nontuberculous, and are en doubtful

I uncomplicated epididymitis the technique of operation is easy but if surrounding induration and abscesses are present it is difficult to remove the diseased tissue athout impairing the blood smooly

of the texticle The skin increson is placed either in the scrotum or the inguinal region, the latter in the author's cases The externus aponeurous is split as far as necessary To assure prompt healing after epididymectomy t is very important to stop all bleeding carefully and close the ound a thout drainage

A С Меця, И Р

MISCELLARICOUS

Roserson E C, and Melener J G The Freduction of Urinary Calcull by the Destraitmation and Infection of Teeth in Does with Streptococci from Cases f Nephrolithiasts And In Und 9 5 EERI, 807

Infection is regarded as a common cause of calcification in times, but the hypothesis that certain micro-organisms which infect man may be peculiar power in this respect is not generally believed.

During the preparation of immune sera, in hich

repeated injections of dead streptococci having different localizing powers were made, concretions were found I necropsy in the calices and substance of the kidneys of sheep injected ith pyclosephritis strain. In series of experiments in nephritis followed the devitalization and infection of teeth in does with staphy lococcus from case of perhittis one dog developed pyelitis and cystitus with marked calcureous deposits in the atherent expedate in the pelvis of the kidney and in the bladder On the bases of these observations it was believed worth while to attempt t produce armary calcul-in dogs by ere ting foci of infection around the teeth with organisms motated from the arms and foci of infection of persons th pephrolithusis, thus shoulding the conditions so often present in clinical

The does selected era active ad well nourabed They were kept under hygienic conditions and fed balanced ration of dog bescut supplemented occasionally by ment A supply of water rich in lime salts was constantly before them. At the beginming of the experiment catheterized specimens of the

urine were normal and roentgenograms of the jud neys, ureters, and bladder were negative. Caltures from the catheterized urine of the patients and from foct of infection in tonnis and teeth were wide on blood agar and in glucose brain broth. The treth of the does were infected either with the referen culture obtained directly from the focus of irfetion or the urme of the patient, or that he culture from renal lessons in rabbits which had been injected intravenously with the primary culture From t o t four cosolds were dev talized and refected Catheterized specimens of unne were ex-amined at intervals. At the end of from fifty-one to one hundred and twenty days after the infection of the teeth one Lidney as removed from each dog, this affording the opportunity at accross some time later t compare the findings in that lid ney with those of the opposite kidney

Nine cases of nephrolithians were studied. The ages of the patients ranged from at to be years The details of only one of the mos cases are given This patient had had repeated attacks of resal coho for four years, and in this case four series of expenments were performed on dogs. The dogs in three series were inoculated the cultures holated from the patient's un a and those in one series ith cultures from an infected tootis

In the first series, the teeth of t o dogs ere devitalized and infected with the primary culture from the urme Both dogs developed calcub

In the second series, the teeth of four dogs are infected with the primary culture from the write and the teeth of four others with arthritis strains Four other dogs ere placed under the same conditions sthout desitalization or infection of the teeth. Calcult were found in the kidneys of three of the four does whose teeth were mireted ith the culture from the urme. The fourth dog died of distemper eleves day after infection of the teeth. too soon for stones to form. The kidney in the

eight control dogs remained normal In the third series, ten dogs were used. The terth of four of these were infected ith the primary culture of the streptococcus from the uruse of the patient during a quiescrat interval and nx ore

hose teeth were devitalized but not infected his pephrolithiasis strain were used as contrals. The kidneys of three of the dogs in the first group too tained small calculi the fourth dog in this group and the aix control dogs ere tree from calculi and other lessons

In the fourth series, the teeth of t a dogs, err proculated ith the streptococcus from one of the patient teeth, and the treth of t control des with the streptococcus from the toomis of patient ith agus unuary upstoms. The first t developed calculs in the kidney the control dogs ere

free from calcult and other lessons

Calculy or lessons of the kidney were produced in By per cent of the dogs whose teeth were infected with streptococci from the error infected treth, and tomula of nine patients with typical neptrohthinks. The duration of the experiments yielding positive results was from one to ten months. The duration of the experiments on the dogs in which the findings were negati e was too short for stones to form This is in sharp contrast to the findings in an equal number of dogs whose teeth were injected with strains from other sources and in those f a larger senes kept under the same conditions but hose teeth were not infected

Paintaking search was made for the rganism in the lenous in the Lidners and in, or adjacent to areas in which sections revealed beginning stone

formation

The experimentally produced calcult were similar in physical properties and chemical composition to those found in nephrolithiasis in man. The number and use of the at nes were often proportional t the duration of the experiment. Roentgenograms often revealed the larger tones. The other findings in the unitary tract were also similar to those occur mag in patients with this disease

The streptococcus inoculated into the teeth f the does was molated from the kidneys, from som of the stones, and from the teeth at the end if the experiment, and its elective affinity for the urinary tract in rabbits was demonstrated in intra enous I tectum

Roedelius, E. The Idiopathic Urine Reaction of Wildbolz (Ueber die 1 sgenharnreaktion nach Wild bola) Zische f arei Ch 9 x, 77

Wildholz demonstrates the tuberculous tours in serum or the secretions of the body by means of an allergy reaction in intracutaneous tests. Unfort nately there are certain sources of error bound up a th thus reaction which can be avoided only by the most careful technique experienced hands. Attention must be paid particularly t the condition of the hidney function, as in advanced renal tuberculous the alsopaths unine reaction becomes negative be cause of the impairment of the secretory power ! the discused kidney

Whether the adsopathic urina reaction will reveal differences of intensity in the disease has not been demonstrated ith certainty at the present time t s of no use as an indication of the prognous. The Anturen content of the unne is not puretrably raised by the presence of excitants

The author classifies the specific urine reactions

into four groups

1 The reaction in pronounced, act ve tuberculosis (except far advanced tuberculosis of the kidney) A pontry reaction as an accidental finding in other ducues and in normal persons. Frequently the khopathi urine reaction is of great after in the differential diagnosses

J The positiv reaction in non tuberculous and otherwise healthy persons. Such cases are relatively rare

Roedchus connects the development of the post in reaction ath the fact that at the appearance of the antibodies and antigens, 1 at the beginning of the struggle bet een the infection and the body no pathologico natomical changes are to be found It makes a difference whether the problem is regarded as pathologico-aratomical or immuno bro-

It has been found that a number of other diseases may give a positive klippathic urnary reaction T this group belong tertiary syphilis, typhold, and paratyphoid There's re the reaction is not absolutely specific for tuberculous and the method must be further tested before its value can be accurately stated It is compleated procedure most suitable for large chines. The specific resction of the blood is recommended, as in this it is possible to eliminate a number of sources of error SCHOOL (Z)

Hartman, G W The Diagnosis and Care of Gonorrhora. Cel ferme State J Ved 9 3 xm.

Hartman a criteria of the cure of gonorther are as follow

1 Absence of all prethral discharge

Unines I and 3 free from shreds or contran ing nly shreds free from our cells. At the All American Conference t was concluded that shreds are unimportant if they float for it least two minutes after ritation of the fluid

3 Frequency of urmation normal and nocturia

4 Prostate and seminal vencles normal to pulpation and free from pus cells. Lecithia present in prostatic secretions normal amounts. In many instances it is virtually impossible t obtain the desired degree of freedom from pus cells in these secretions Cereation of treatment followed by a normal sexual lif for few months will psually clear up the remaining per cells

5 Patency of the urethra. As the patient is being prepared for dismiss I, sounds should be passed t determine the patency of the urethra and for their therapeutic effect. If this is done gradually t will

not be followed by a discharge 6 Ducharge following all er nitrate treatment.

if any negative as regards gonococci, both microscopically and becterologically

Normal testacies, epididymes and vasa

8 Absence f dacharge on physical exertion and on the injection of vaccines In conclusion Hartman asys

I The culti ation of the gonococcus can be done as samply as that of any other organism provided the medium is warmed before the inoculation and kept arm until the oxygen tension has been reduced and the tube is transferred to the incubator

2 The bility to cultre to the genococcus seems t decrease first after treatment and seldom increases again. The finding of gram-negative intra cellular diplococci is the second factor to disappear the subjective and objects findings persuat ery much longer, and the patient cannot be considered cured until they ha been entirely eliminated

LOTH CROSS M D

Léty Weissmann Anorectal Gonorrhose (La blemnorragio no-rectale) J d'arri wéd et cher 9 3

Reference is must to Hebrew and Greek description of this deeper to the per Christian rear. In 353 Hecker ga the final d tailed description of it. In 57 Roller started that the saal nuccost is less sensity it the infection than the computer vs. In 574 Roller's successfully irrapidated the Infection from the compiletive is the axis but failed to mpain it in the rectum, a fact he attributed to the paint it in the rectum, a fact he attributed to the areas. In 53 Combi, and Dubar continued that areas. In 53 Combi, and Dubar continued the sampsupose but some them, it has been reflected as the

organism can now be recognized with the macroscope. The fruity of the disease is only apparent. Experially in the cases of prostit tes, it has been confused with other conditions. It occurs more frequently in the female than the male because in the former the anatomical relationships favor and contamination and mentituition and order minimum time in the content of the content of

intestinal stass-

The condition may be caused by three taxon lines undurent monchains (finger, googna, theremoester, etc.) and auto-fafection. The resistive inference of indurent monolation is due to the relative in sunceptibility of the anal repose. The cybismic epithelium of the rections, this that of the surther, offers caver process to the proconcern and the sorrent and monocas is good harmer but to the presence of exams afterns, and superficial information which loves it is with the cybismic of the first process in good harmer but to the presence of exams afterns, and superficial information which loves it is within the cybismic of the condition.

fection is a overd. The spreader of the annu varies according to the seventy of the infection. Light care show early diffuse reduces we how without aveiling. In case of medium severely there is greater section; and one continuate policy are consensuated on the reducing folds are concentration on the continuation of the conti

in the late stage they are gra ular

SURGERY OF THE BONES JOINTS. MUSCLES TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

Palettini, R. Generals and Cartillatinous Neofor marlous Resulting from Grafts of Fixed Tuesses (Ultraon contribut allo stadio di neoformazioni overe certifermes determinat da innest de tessut faculti) Arch fel d har o s u, 60

I this article Polettini reports the results of experiments in which he grafted pieces of north, powdered bone and cartilage, and curtilage extracts into the cars of rabbits

In fix of the fifteen experiments with grafts of torta the graft was examined t the end of seventy days, in six at the end of eighty to days, and in four t the end of one hundred and seventy d vs. Is each instance the graft and the surrounding times ere studied in serial sections. Histologic examination showed disappresiment of the muscular abrocellular turne, the infiltration of abroblasts. and calcification of the elastic fibers. In other cases grant cells were found among the clastic fibers hile in still others there as complete or nearly complete resoration of the graft. I five cases, clear explence

of new bone formutio was found bout the gr ft In the experiments with powdered bone and carti lage and in those a th cartilage extracts the results ere als ya negative as regards the proliferat on of

bone and cartalage

Polettini concrodes that bone and cartil ge grafts contain substances capible feacting the activity of connective theme. The importance if the area both graft a introduced any proved by the f ct that caseous and cartilarmous neoformation was found when auricular cartil ge bone, or fragments of norta were grafted into the ears of rabb to but not hen they ere grafted subcutaneously int their backs

Kmage, R L. Octobile F bross Bril J Surg 9 3 I, 457

Osterius fibrosa is disease of bone in hich part of the osecous framework and its marrow is replaced by throns theme. This disease may be caused by the extension of sount infection or septic irritation Arthritic joints sometimes show transparent areas in the boars entering int their formation. Lromons of the hone may be found or ca ties filled ith relatmous mucoid substance

Ostette fibrosa may occur as primary affection. The author discusses four types of cases, viz. Type those in buch the disease is characterized by uniform mass f fibrous these T) pe cases with solid fibrous mass which show a tendency ti degenerate and form cysts. Type 3 cases in which

much bone is formed and the discuse shows signs of coming t an end and Type 4 cases a th singl cysts I bone

illustrat cases of Type Pollard a crace is cited The patient was a child of 5 years wh had injured her les when a year old The bone swelling was noted no and ne half years later. There was A solid mass of fibrous tissue occupsed the meddle third f the tibia Sections showed anistomoung bone trabacula enclosing spaces filled with a entistance resembling the fibrillar matri of growing home. At this stare of the disease the sectioned bone shows solid area of fibrous tassie sharply

differentiated from apparently healthy bone An example of the second type f case was a case reported by Clear and avestigated by Eve. The nationt was min a years of rewho had mutained

fracture near the muddle i the t bia ten years previously. The tibia was enormously expanded Its entire more half was con cried int fou or five large evets. The lower half showed more home geneous ppearance with a few cysts. The bon itself as only reticulated hell with a small area of cancellous tissue beneath each articular cartilage

capsule as found

Occasionally in som specimens there are definite masses of new bone but as rule the products n of honour cases of Types and a m not sufficient to be

T illustrat cases of Type 3 three cases are cited This tage seems t be a later development of the

disease found in cases f Types I and a

I the case f woma aged 37 years, th tibia became painful after an injury sustained six years previously and amputatio was necessary. Its upper half as fou d to be transformed int cancellous bone lik therne so devoid of lime safts that it as pliable ad out readily with The compact wall and medulla had bee replaced

In a case of Type 4 seen by th a thor there was a cyst of the humerus I brous connective turns filled the spaces bet een the trabeculæ and pre

sented numerous small cysts

by this times

The histology of osterin fibross is fairly constant Bone marrow is replaced by a dense vascular connectry treese high is composed of fusiform of branched cells th outrunning processes and may show a whorled arrangement. All fat disappears The connective tentue replaces the onseous framework Numerous scattered focs of new bone which are formed throughout the connects e tassue framework eventually coalesce and I rm sclerosed masses of bone Omnicatio begins either by metaplasia small patches of connective tissue or by the denout f calcareous granules around a connective times

cell in a matrix formed by the connective there itself. An intermediary stage of fibrocartilage has been observed by Elmshe but is very uncommon.

The origin of the cysts is not clearly trace-tible in sections. There seems to be tendency toward the development of same of degeneration to the connects turne framework. I most cases the cyst contents are a pale yellos serum suggesting loque faction. Small cell insitiration is absent.

The discuss usually league — childhood or during the growing period and if left to staelf may persus throughout lif — The putters is not seen usual it is presented. If then seek at testiment because of ediagrament of a bone, deformity fracture or a hung due to holortoning. Fracture lenguestic occurs, almy due to holortoning. Fracture lenguestic occurs, the production of the control of the production of the control of the c

The discuss includes the destruction of tract of one-con lastice and it is replacement by fibrons tames. Bone is impaired t such as extent that it dies I supportative inflamm born breterns destroy the witality of bone. In tubercalous inflammation, tone inflaments cause distinguished. Tone sub-statem any be produced by incree organization, tones affacts and in the produced by incree organization, tones of the produced by incree organization, tones on the produced by incree organization, tones or the produced by incree organization, these organizations are the produced by incree organization.

metabolism and intestinal factors

The treatment must be directed against the cause

Foct of septes must be removed and errors in diet corrected. Various surgical procedures have been adopted. Curettage of the fibrous material, removal as sease.

of localized patch, and amputation have been done Jore Miresina, M.D.

Moore, S. Observations on Ostelite Deformans, Am. J. Resignal. 9 5 3, 207

Since Paget article on osteits deformans appeared in 877 nothing further has been learned regarding the etiology and pathogeness of the dis-

ceie. Ottertist deformans may be defined as a general disease of the skeleton, the their manifestations of which are bost callengements and missequent with the control of the skeleton, but in some cases may remain in angle boor. There are minerous theories as to its cause. Geographical, dimatic, and remain factors, and ear seem to play no part in the stolegy. Syphilis, caremoons, and infertious discussed in not been demonstrated as a cume traces in a not been demonstrated as a cume the stolegy. The skeleton is the skeleton of the skelet

The onest of Pager's duesase has never been described. When the condition is manifest it has been present for some time. Its propries may be raped as low. The hotels of the thing, large, peters, and shall offer the propries of the propries of the shall offer the propries of the propries of the shall be propries of the propries of vary with the stage of the condition. The deformation seem to be due to weight besting upon the softened borse, but this theory does not empire deformity of the skull. In Papel's option the bosse increase in length as well as other discessors, and curvature as produced by firstness of the extremines of the softened boots:

The symptoms are almost wholly objective and the diagnoss must rest on the objective findings. The V-ray findings are changes in the testings, say, form, and outline of the bose surveised. An increase mobile at the most significant. A surveised modeln as manufact in the cortica of A surveised modeln as manufact in the cortica of the long boses. The objects fayer in registered by a surveised surveised processing of the control of the cont

appearance shows bone condensation

Osterus deformans must be differentiated from all other bose conditions carsing enlargement, de formity rarefaction, and condensation. These are syphile, immor chronic inflammation, hypertrophic changes, catetia fibrose cysics, esteconiana, hyperortons cranu, and lecutassa oserum

In actionalizati there is no enlargement of the one. So philips involvement is associated with less of substance and accompanying repuir. Only taneous producing ossiciations should cause continuou. These are now growthe originating in the beas and estitable cartinomial of the bose multiply cause in any montriest increase in any official contractions. Of these contractions of the contraction of repuir processes. The author cases for cases as follows:

CARE I The patient was man 53 years of age who, in his forty-minth) car seefered. Inchms of the left femore. Prompt and estimated years resided. Sor spooths later he again fractured the same leaves at a slightly higher level and gain there was good

ar a gigatty higher level and gain topic with repair. A ray examination at that time supposed surcome but the final diagnosis was Paper's disease. Case 1. The patient, woman aged 18 years,

CARE 1 The patient, woman age in or the complained of nervous tremons and pain over the entire left side of the body. Examination revealed spanish-shaped calargement of the left than which was bowed outward and forward. Year examination revealed typical Pager's discuss.

Cast 3. The pattern as soman aged glyour. Following the extraction of tooth, pun begus in the upper portion of the left and of face. Later strend bones in the new zero removed. Ramenation aboved promoness of the left and of the articles process proper and process process of the left and of the articles process process of the process process of the p

CASE 4 I this case the dispross was made from the \(\lambda\) ray picture alone. The third hunbar vertebra was enlarged symmetrically and aboved the textural changes characteristic of Fagor's disease.

Kam Mremant, MD

Hutchisson, R. W: The Roentgenological Distnotis of Bone Tumors. U.S. Acrel M. B. H.

1923, 2723, 679

In the \-ray diagnosis of bone tumors the point of origin of the growth must be considered first, that is, bether it arms from the cortex, the medulla, or the person term. Carcinoma is ruled out if the growth originates in the periosteum as the latter contains no epithelial cells. Carcinoma cells are metantatic in bone and beam in the region of the nutrient artery Sarromata may one inste in the cortex, medulla, or periorteum.

The second point t be considered as whether the cortex has been destroyed or not, and if it is not destroyed, whether t is expanded. Benign tumors expand the cortex rather than destroy it

The third point is that of bone production Car tinoms never produces new bone. Round-cell and spandle-call sarcomata do not produce nea bone Consequently personnel, outconfromata, enchondromata, osteomata, and hemstomata must be con-Malamant duesse lays down new bone perpendicular to the shaft. Benign tumors lay dow

new bone parallel th the shaft

The fourth point is that of invession tumors push saids the soft therees, while malignant tumors include the soft tissues, in their growth Victoriatic carcinomata from the prostate to the pelvic bones and to the femur appear to be definitely incressed in density. Bone destruction is less evideat Metastases from carcinoma of the breast, lungs, skin, or sterus cause destruction of the bone with no increase in density

Hypernephroma has the same appearance as car canonia of the prostate Round-cell sarcoma origi-nates in the medulia and destroy in all directions The cortex is destroyed and not expanded Roundcell sercome invades the surrounding tissues early Spendle-cell sarcoma does not invade or destroy as rapidly as the round cell sarcoms. Personteal sur come is the most characteristic. It originates in the perceteum and invades the tiernes with hitle change in the ppearance of the cortex. In the early stages a number of fine lines of calcium deposits can be sees extending perpendicularly into the soft instees later on the cortex is invaded and destroyed Outcosurrous appears more dense and massive and shows muck earlier destruction in the cortex than the periorical surcoma. It occurs also in youth and early adult life Perrosteal and osteosarcomata are the only mangnant tumors producing new bone In comparison with most sarcomata, grant-cell sar come is benign. It does not tend t metastastre It arres in the medulis and destroys a portion of the cortex. Its common site is the ends of long bones, tenally the femurand tibus. It is a tumor of middle

My clome is a mangeant growth which grows slowly It shows multiple focal areas of destruction noter the cortex. The cortex is thinned out but hever destroyed. The presence of Bence-Jones The presence of Bence-Jones bodies in the tirine assets in the disgnous

Myxomata resemble bone cysts They occur in youth and may become mahenant

Enchondromata and outcochondromata may be

entirely or partially cartilaginous in origin. They occur early in his and originat in the medulla over the epiphyses. They expand, but do not destroy the cortex

Outcomata are benign tumous growing from the cortex. In structure they resemble bone. They do not myade, but posh the tissues aude, and usually

occur in the young

Bone cysts resemble enchondromata They orumnate in the medulia and expand, but do not destroy the cortex

Libromata are rare tumors. They do not invade and contain no new bone. They cannot be differ entiated from bone cysts

Hemangomata are not bone tumors, but large, round, soft tissue swellings. They contain old bodies of calcification. Ossilving hematomata are commonly seen in cases of scurvy in children Calcium as land down in layers parallel with the shaft

IONA MITCHOLL, M D

T ylor, R G. Rosnigen Gastro-Intestinal Studies of Patients with Chronic Deforming Arthritis. Am J Roenigewol 9 3, x, 424

Bet een thurty and forty cases of chrome deform ing arthritis were studied with the X-ray Bands and kinks were found in the ileum and larger testime Surpical correction of the faulty intestinal mechanism gave rebel in some cases and medical

treatment seemed to gi relief in thers.

The conclusion is drawn that in cases of chronic arthritis routine and thorough gastro intestinal ex-

amination is well worth while DESCRIPTION OF CHILE M D

Brunn, H and Fleming, H W Surg Clas N Am 923, m, 6 5 Cervical Rib.

thor reports three cases. The first was that of a girl a years of age who complained of a sharp pain in the right shoulder of recent onset The X ray revealed the presence f cervical nb on the right side. Since the first examination the pain has lessened considerably and there are no nerve or circulatory changes. This case is to be kept under beervation

In the second case certain types f exercise had caused pain in the right shoulder and down the right arm for the past twenty years. The X-ray revealed the presence of a cervical rib on the night side. Operation was advised but not accepted The third case was that of a woman so years of

are with blueness and umbness of the right hand which was aggravated by cold, pain from the shoulder to the cibou and swelling of the extremity On examination a small hard turnor mass was found in the right supraclavicular fossa. On pressure this mass caused pain down the arm Pulsation was noted high in the sulls but not below. The blood pressure in the right arm was zero. The pain was felt over the distribution of the radial and medium nerves. The surface capsilometer showed a brish flow in the left arm but a very storrish flow in

in the right

At operation the vertical limb of the incidion was carried along the authors bound or the lower cerscal portion of the trapaton, and the bousontal into hittle above the middle of the right clivride and extending down almost to the stermock scalar control of the right control of the right clivride and extending down almost to the stermock wellmonaton to the right control of the right and the cerscal riery and can were severed and their cerscalar riery and can were severed and their had found to the right and median near n symptoms. The scalenus median muscle as separated and the risk and median tern is symptoms. The scalenus median muscle as separated and the risk reposed, trapped of its most state-diments, and expected trapped of the most state-diments, and convenient to the risk risk reposed.

Recov ry 1 this case has been slow but stendy. The circulation has improved but the hand is still senior e t best ad cold. There is no longer any true.

Cervial role are baltered in 80 per cent of cases, but in 90 per cent of these bis impress are unsisteral. Certain of the lower animals bave crivical role. They are present is on the feets but disappear before barth. Their occurrence in nain may be considered in state or received it type. As frequently there is neuropythic databases in these cases, operations posterimes often not entirely restricted by a replecion of the proposes. The symptoms are nervous or circulators depending on the relationship if the risk to the plenus and arrety. The \(\text{Tay usually receive the status and the property of the risk to the plenus and arrety. The \(\text{Tay usually receive the databases certain.} \)

United Perent M.D.

Gouldesbrough, & Osteo-Arthritis of the Spine Free key Sec Ved Lond 9 J. xx Sect Med 61

The uthor review of cases admitted to the hospitals is a provincial disposas of restrictions. He desirbes them as follows: Calcul present, insections of the control of per cost) calcul not present, as cases (5 per cost) cases not re-azimized, tech (5 per cost) cases not re-azimized, tech (5 per cost) cases arbitrat of the space, per solice cases (6 per cost) of propioses, or calculated to the provincial cost of the provincial cost of the per cost of the per

This classification along that there were nearly as many cases of osteo arthritis as cases of stone Condidenteropia therefore concludes that many cases of osteo arthritis of the space have been fragment as renal calculus. If mentions three types of osteo arthritis of the space—t completely distinct.

and the third combination of the t o In the first type the eithest indication is the appearance of small spikes on the lateral borders of the articular margins of the vertibers. These spike lik projections tend to coalesce and form complete budge between the several critists. The disease may be unlateral or bilateral. The part cheely affected somes to be the dorsal region. The second type is unconstron. It appears to consist of an erosion of the interventional fibra-

cartifugueous dest leading i fousou of the vertebre. Examination of dired akcideto spines showed that is the first top ethere is a deposition of calciums askin in the lateral borders of the anterior common ligament which may spread and fous over the entire asterior surface.

In the \ ray picture the outlines of the normal bony ettebrie, which are more opaque show through the other shadows. This proves that there is no true boar problems of the beather.

true bony produces on of the verticine. The without believes the explanation of the true dataset to per of quand account into the real special fact that if all outer outfinite conditions there is an atrophy of the muscles of the surrounding parts the inproviment on the bony segment. Treasure curses reason of the cartiling, and ossering charge begin on the interior ligament before the eroson of the fact that the condition of outcomes and the condition of outcomes and the condition of outcomes and the condition of the condition of outcomes and the condition of outcomes and the condition of the condition of outcomes and the condition of the condition of the condition of outcomes and the condition of the condition

Iony Mircons, VD

Schuster O. F. Limitation of Flexion of the Feet Through Shortened Call Muscles and Its Non-Surgical Correction. Hel. T. set., 4,3,4,134

The condition described as found most frequently in somen who has worn high heried shoes constantly for several cars. Other crosses are probagging test in bed due t allows in which the foot as slowed to drop, sak-foot faithout music trauma, and pohomy eiths affecting the anterior resude group.

The imprions of retricted dorumence are is time, pain in the front of the lower by crimps at the calves, and pain in the soles of the feet. The feet caused be doraffixed: the normal angle of 15 to 70 degrees. The defect usually does not become sourceable until two begiend show a orn.

Tenedomy is undesidedly the correct processing for proconnect shortening. Strictings of the cill muscles under ansarthens followed by frazione an plasare cast as good removed by the many pairsest casted sparse the time necessary for this treatment in the mothed employed at the foot clinical labels which the the past for years and the processing of the body of the past for years and the present of the past for years and the present of the past for years and the present of the past for years and the past for years of the years of the past for years of year

The many devices designed for the correction of the condition are not necessary in the milder cases and can be used only when the patient can allord to shatshafrom ork. Among those who ha e devesed apparatus are Heidenhain, Hoffa, Strohmeyer Scarpa, Lattle and Shaffer The Shaffer apparatus, which is the best known and most widely used, was designed primarily for the correction of contracted

feet or non-deforming club-foot The author has devised an pparatus for the gradual stretching of the posterior muscle group with the foot in inversion buch operated b springs. As in the use of the Shaffer shoe the stretching should be preceded by deep massage the call muscles or by baking and massage should not be continued longer than twenty minutes t

each atting and should be carried out daily if pos-The patient must supplement the treatments | 1th exercises t home, morning and night. The author recommends three exercises tending t lock the

and tarnal rount and dorroffer the foot DANIEL H. LETPTERAL, M.D.

SURGERY OF THE BOXES, IGINTS, MUSCLES, TEMPORE, ETC.

Donn, G. R. The Obliteration of Bone Cavities in Chronic Osteomyelitis by Free Fat Transplan tation. U sense Lice 9 3

From experimental work on dogs and from the results in clinical cases Dunn behaves that the free transplantation of fat is aliable procedure for the obliteration of cavities in bone due to osteo m) thus. These cavities should be practically free from bacteria at the time the transplantation is done in Duan opinion, the fat grafts survive as such and are not replaced by bone

Drives R Cetta M D

Deceance, G. M., and Bransfield, J. W. Immediat Plastic Operations in Injuries Involving Ten dens or Joints A Serg o thorns co

The authors d ocat immediate plastic operations upon injuries invol ing tendors or joints. Debride ment, primary suture and mechanical cleanurg of the seconds should precede the plastic, but no delay should be permitted after the preliminary cleansing Exposed tendons or joints are pt t become in letted and to alough, and antiseptic dressings tend to destroy the limings of joint ca. ties

Three cases are reported : which good results ere obtained by an immediate plastic operation The first was a case of exposed tendon and joint

finger the second palmar injury with exposure of the superficial tendons, and the third compound fracture with an open joint and exposure of the **Perfecul tendons

The technique was that usually employed for constructs, plantic surgery of the hand. An abdom trail dap as raised by means of parallel incisions, the potentially infected hand was placed under the ap after careful mechanical cleansing, and the edges of the woods were entured

JOHN MIRCHIEL M D

Steindler A. Orthopedic Surgery of the Upper Extremity If and Mad 0 3 VL 43

The duabilities of the upper extremities are morphological and dynamic. By this the author means that they are due to position or to motor inability. He prefers regional distinctions because positional and dynamic distinctions are not practical

The position of greatest disability t the shoulder in figution in adduction and inward rotation principal motion of the shoulder is abduction. Abduction is inhibited by contractures following in puries t the capsule tendon tears, subdeltoid burnits and birth palsy hope injuries and other conditions. In all kinds of paralysis it may be entirely lost

The position of greatest disability in the elbow is extension. The principal motion is flexion. Flexion extension is inhibited by contractures after bone inpurges, richemic contractures, traumatic and inflammatory ankylous of the joints, and all forms of Daralysis

The position of greatest distability in the wrist is full flexion. Flexion deformities occur in all kinds

The position of greatest disability in the finger is hyperextension in the metacarpo phalangeal joints in the thumb that of abduction extension. Finger motion is inhibited following injuries of the bone and inflammations about the rolat.

I shoulder contraction due to birth palsy the treatment of choice is bloodless manipulation of the joint. In manipulating the joint the all important one-tron is whether the lesson is intra articular or extra-articular I tr articular lemons do not perm t correction by fortible manipulation. In manipula toog of joint harboring adherious blood effusion

ill form more adhesions

When the contracture of birth paley does not yield t passive tretching, Sever's operation, which consist essentially of an open tenotomy of the contracted tendon of the subscapularis, is performed Cases in which time salts are present in the supra spenatus tendon must also be operated upon

The flat shoulder is encountered in paralysis of the deltoid muscle in anterior polimychin. The surgical indication is arthrodesis of the shoulder The shoulder joint is opened by a U shaped increson around the acromion, the tip of which is chiseled through and deflected dow and After the opera tion cast is polied a th right-angle abduction and slight forward flexion in children, and abduction to 70 degrees and slight forward flexion in adults. The cast is left in place for three months and then solit for active and passe a motion

In the elbox yount arthroplasty is indicated U shaped meason is made from the outer to the inner border of the humerus, crossing the base of the olecrapon The articular ends of the bones are carefully constructed and the joint is immobilized in plaster in acute flexion for eight or ten days. A splint is then applied and active motion begun Passive motion follows three weeks later

The fail bow is encountered in paralysis due to antenor poliomyrlitis. Arthrodesis of the elbow cannot be applied t children because of the uncertainty of the outcome. The flexors of the fingers and wrist can be used for flexion of the elbow b transposition By this method the ferror carri radialis, palmaris longus, and flexor carpi alasms are rsolated from the inner epicondy is of the humerus together with the superficial head of the prosatur rad teres, pulled upward and fastened into the internuscular septum of the humerus between the t keeps and brachala antices (14 in higher on The leverage of these muscles is thus changed so that they act as flexors of the Bow After the operation the elbow is placed in splint and two or three weeks later actn and p wire motion is begun The sphat remains in place for from t months.

I pronation contractures of the forestra the sur gical procedure as resection of the pronator rad teres and section of the pronator quadratus.

I cases of flexion contracture of the rist result ing from spastic paralysis or Volkmann contracture conservative treatment should be used first. Onera tion, if resorted t consusts in lengthening the flexor tendons 15 th regard to the drop wrist, correction of the deformity and the restoration of function most be attempted. Tendon transplantation is ledcated when it can give not only active extension but also stability in active extension. It is indicated In some cases of peripheral paralysis, such as musculourital paralysis, in which the enture flexor group of muscles is intact. In the majority of cases, how ever arthrodeus is necessary. A simple dorul in tuoon of the wrist is made between the extensor nothers lowers and the extensor ladies property. A wedge resection of the lower ead of the radius and part of the scapboul semilanar bones is done. The cast is applied in dorufexion

In paralysis of the thumb the thumb is adducted and cannot be conceed t the other farers. For the correction of this condition a plastic operation is done in which the long ferror is split and its outer half carried upward and backward to the base of the

beral phelenz

In the spastic group the catching of the themb under the fagers is prevented by the implantation of the extensor radicis properts upon the long extensor of the thumb

In excatnical fractures the period dap method as used. The after-treatment is especially important Success depends upon muscle education and reeducation. The author has introduced and developed standard exercises for this purpose.

Joan Mineres, M D

The Treatment of the Flati Elbert Joint with a New Operation of Arthrodook Lences 9 3 etts 796

Mercer describes an original operation for pro-ducing arthrodoms of fluil choses. With the use of the posterior mersion, the muscles are freed from the bone but the personneum is left attached. All scienced bone is removed, and for a short distract above the end of the humarus the percenteum is raised in a cuff so that the end of the bane is left

The end is then made square with rough file and a square hole is made in the region of the woter ends of the radius and plas. The square end of the homeron is fitted into the square bole and a doll hole is made from side to side through the rather and tilns and through the lower end of the humerus. A stoot solver were is then threaded ant the small drill hole and brought around the bone and t sated so that the t ist will come in front of the must The area is then covered with muscle and the wound closed without drainage

Depending upon the manner in which the square hole is made, the ribon can be fixed t practically

any angle desired

ther reports two cases inh in puts factory results. He condemns the use of artificial sale lagraneous and funcial transplants and experses hitle faith in the Jones skip plastic fixation of the elbow He prefers arthrodesia t arthrodusty

Digree & Cong, M.D.

Cowen, J. F. Excision of the Knot Joint, Sury Clas-Y A = 1071. h. 611

Excision of the base ioint practly results in 600 union bet een the femur and tibia. Such ourcosts anion as demonstrated by stereoscopic roentgen ograms in which bony trabecule may be traced from the femur to the tibes. It ben seregular area of lessened density is seen between the bones, there is fibrous trasen. Occasionally definite ciefis appear between the bosses and apon examination the pa tients demonstrate varying degrees of motion in the knee joint

I the athor's ocumon the difference is not des t infection, because all the cases operated apon healed by primary union and any of the results described may occur in cases of old treatmatic or infective arthrite

Of marters excesses done upon the normal knee source of dogs, two were followed by normal amon, three by fem fibrous or fibrocartilaginous uners. eight by loose fibrous union, and six by a definite new joint with cartilage and synorial membrane Fallure of boos amon was due to local factors

I a second series the saved bone surfaces very fixed in various ways for example, by shortening and surening the canerale by wiring or by over lapteng the patelliar tendon. I every instance there was bony umon along the entire extent of the saved surfaces

The reparative process proceeds is an orderly

manner Hemorrhage from the vessels occurs unto the marrow spaces, and the blood is extravented for varying distances into the marrow of each bone Congulation takes place and fibria which is deposited on the sewed surfaces scale the marrow spaces and ts vessels. Fibroblests problerate and convert lymphoid int fibrous marrow. Capillary buds of endotheinm appear in the marrow spaces. The cots a laxaded and replaced by granulation tissue consisting of an ordematous net ork of fibroblasts and endothelial buds.

Socreaful mion must occur if a sacular communician se stabilished between the bone ends. The more scenate the approximation the smaller th blood dot and the more certain the osseous union in all case in which the bones were kent in aurous

tion bony umon occurred rapidly

Faulty approximation of the bone favors the in growth of granulation times from the percent and as this is a hardy connective tissue it invades and organizes the clot between the bones rapidly this preventing fusion of the vessels of the medullary cultures.

The plane mode of excision often results in poor justapourten of the sawed bones because of the difficulty of sawing in the proper horizontal plane if a uniform contact surface is not obtained a variate

or valgus malposition results

The author prefers the concay convex method he lower curved incesson cross the joint is used. This is continued through the partialar ligament and the yout surfaces are exposed. The semilutar curtulages and crucial ligaments are disacted free heavers as used in a plane parallel with the under surfaces of the condyles. The tibal head is see discross in concave manner from front to back. The posterior ligament is abortened by four authors intures of issuaproto tendo. The leg is then extended and the wound closed. Pleaster I have seen the cast is replaced with brace linch is versa the cast is replaced with brace linch is consuming and the contraction of some consumination.

Miller O L. Tendon Transplantation in the Lower Extremity South H & S 0 3, http://xxx

The author states that surgery as less effective the nearest the procach to the vital centers of the nerves, reparatory circulating, or depositive systems in the lower extremely the result is power the nearest the approach to the hip. The most successful result is tradeout reapplantation can be obtained only over stable skeltal inces. Tendoo tramplantation about the apper thinks a limited to two procedures (1) transplantation of the fiscus lats into the substance of the trochanter: t releave the justify in the point capacle and the invarious head, and (1) transplantation on the fiscus, tats into the fermus year below the trochanter to form an abductor of the hip in the beares of the functions made in the same of the fiscus means the surgery of the hip in the beares of the functions medium.

Re enforcement of the lagging quadraceps by transplainting a lamsstring forward into the platella is often satisfactory. It tendon transplantation yet does about the knees has been able to reheve the badly fixed or flared knee.

T treat paralytic foot successfully means t master foot stabilization Deformities of the foot say be classified as the paralytic club foot a th the tibal success stronger than the permen the para lytic ci b-foot (equipus) with the tibial and peronei muscles fairly well halanced, but the weaker dorso flexors overcome by the strong gastrocognius soleus the paralytic flat-foot with the peronel stronger than the tibush, and calcaneus, with a doraffexor stronger than the Achilles group. Valeus is frequently assocated a th calcaneus deformity. Not all paralytic feet with varus demand transplantation of the ante nor tibual tendons, nor do all feet with valena demand transference of the perones or the extensor propries hallums tendons Stabilization will take care of these deformities. When the foot is in varus and the muscle show even slight strength the anterior tibual tendos should be transplanted. The peropeus I news and brevis tendons are transplanted into the beel cord. If they show power when the foot is in alens deformity the peroneus longus may be in serted int the internal cummform t and the anterior tibus tendon. The peroneus longus works well as an addnesor. In valeus foot the extensor propries balluce may be used to reinforce the anterior tibral tendon, and in hammer too deformity may be transplanted to the head of the first metatarnal paralysis of the Achilles tendon with active peronel. the perones may be transplanted to take the place of the Achilles tendon loox Mircania, M D

Silver D The Operative Treatment f Hallux Valeus J Bons & Joint Surg 923 xxi, 5

I halfux valgus the great toe is deflected toward the outer border of the foot and there is subharation of the phalin on the metatarial head. Prominence on the nane side f the great toe point is caused by bone hypertrophy and banton formation, but main by the growing of the under portion of the head as result of the subharation. The internal lateral ligament and the inner portion of the capsile are tretched, while the external lateral ligament and the external portion of the capsule are correspondingly shortered. The extensive and flexor tendons and the soft of the point of the capsule are correspondingly shortered. The extensive and flexor tendons of the point, and the shottert hallines, where side is placed toward the plantar nurface, is therefore at a mechanical deadwantage.

At operation the usual incusion is made the fibronic capsule in exposed, and Y shaped incusion is made through the internal lateral surface I form distalling with its base attached to the phalaina and dorsal not plantar flaps. The great to is then abducted, a thin layer of the cortex with exortones in removed with small portion of the articular cartilage and the edges are rounded off.

For the formation of an external capwain flass unperor and offeror longitudinal inconcess are made through the capsule from the top of the phalant back it the potential inclusions are more than the capsule of the capsule. These incasions are then connected by vertical incision through the capsule dose it the base of the phalant, and at the same time the attachments of the abductor a dobegues hallons are derided. The great toe as then held in 45 degrees abduction, the dustal flap of the new internal lateral ligament is



to the bre year as deal thap deval than Hen ć. 11

Post mad became brough the extremel continue of the expends shown by the interrupted here

bears & the should and the place Says to place at more expect har protest of donal and phases days when refuted home to her y har a microspied animer through down an stantag floor

(New Obes in Indoord of F at Fales)

sot red in perition to the dorsal and plantar flam the hi lacrofon is closed, and an al relatin splint

to project t maintain extreme fellection In the fler treatment bis dincel bundage p per ed shall from writing out and over the discum t overcome the appr dong of the aterior and not

the obligated formered that would be smalled and down rds I and Halling the outer horder of the foot it begun to a week and above ma be work in from there to how week the set I beans remaind nd replaced by adhed trappy of t mai tare over correction. In anterior leather larger is stunted for the flanor! handage to correct mer ding of the terms tell after walking at begun the and old baths are employed with p ed abduction and hort ourse of 1 tests training 1 proper t whose and well me R seres R w WI

FRACTURES AND DISLOCATIONS

Hate > L Fractures in Transcisated Sone Sare Grace & CH 7 5

Graft of any tissue depend for movers more the lubts of the cellular element of the graft t rema uside until such time as new realistion is get blished from the host

water in rel gators in m that the cutrofdante bone tracels t suren and aid in the ती व process. Others malatain th t there is non rat complet degeneration of the cells of the transplant tel that ten t processes depend upon outro Master regrowth from the bost

that believes that trissplanted hone ha like .

inherent run er of rem neration

impediate site outnounce of HAKUTS blood ad I mpd occurs this is followed by a awayte and minuters school at the form from of granulation there and the organization of the blood for Chicobia t press in tocressed members the region of the periorteum, ad endosteum ad bout the ke ruan cansis. A cartdemaous caffee is formed, high is first transformed rat osteon) town rel i ter becomes calculate

following the transplantation of a home graft an factual take of decemeration accurs, but the mainscope my rais the sum hal of some of the ortenments: rells or the graft. Problemation of oen home is also These processes actual in transclinted base even when it is tramplanted its marcular timbe

nd was from other overein time. Lour groups of experienced, were performed acust dien t determine whether there is sufficient eperio for hone remur by fract and tensioned and for the

regeneration of the transplant steell

I the first group an entire metacarpal or metatanul as completely transped from look from t red oil replaced in the normal position in the to st. I three of the st eases there was definite union of the factures in the refurciant I fouce In the fourth argular deformits occurred but rall a present la the remuniar t cease the period of others, tion was too hart for definite con hrusa

In the accord group of experiments the third portularul was removed fractured ad transplanted out the muscles of the back. I fit of the seven experiments there was defined expense of amon of the tractures. If along aned from cartilize forms tion to the overous stage and as meuler to the brakes of f acture in present hope

I the third group of experiment bonce ere to moved builed and re-supplicated as their named north in There ere no sures of problemation in the group. The boiled home acted as foreign substance and showed evidence of degeneration

I the fourth group of speriments bouce err removed from the feet fractured boded and trast planted and marke 's ex knee of cartiligament ac ancous proliferation stough

I the aith group of experiments metatanal as remo ed and fractured one half of the base as hotled a 3 both I agreents the boiled and the unboiled were re-implanted. It as found that there is sufficient power of proliferation of the cells of one half of the implanted bone to produce cells sufficient I upm in to the dead remission but

In the airth group of experiments the metacurpal as removed and fractured. ne half was boiled and both halves were embedded in the apinal muscles with their fractured ends approximated One experiment showed definit innion of live with dead segment

The uthor concludes as follows

r Fractures in transplanted bone even when barred in muscle united firmly and in similar to that of fracture under normal conditions Fractures in boiled transplanted bone never

united or showed signs of probleration 3 Fractures in transplanted bone, one half f

buch had been boiled and the other half of which was alive united even when the bone was buried in

4 The experiments reported are crucial test of the independent, inherent, outcogenetic power f the cells of transplanted bone

Tours Mitrometa, M D

Behrand, M. The Longevity of Plates and Other Foreign Bodies in the Treatment of Fractures of Long Bones. Atlanta: M J 9 3 XXVI, 585

The length f time that plates and other foreign bodies used in the treatment of fractures may re main in position depends upon the type of fracture bether it is sample or compound-and whether

fuection results following the operation In sample fractures in which it is possible to main

tam perfect abnement with metal plat tis of necessary t remove the plate unless there is irritation or infection

Vetallic substances may remai as sits ade finitely without caming inconvenience. As proof of this the author cites case of habitual dislocation of the ulna m which nails put in place in 9 6 remain in the arm today, and case of fracture of both femora in which Sherman plates are still place after four and a half years

The necessity for the use of metal plates is not as common in fractures of the upper extremity as in

those of the lower

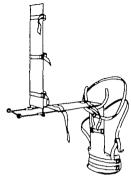
Proper position is emential for good function If it is impossible t obtain the position necessary for good function an open operation must be done according t Lane plates need not be removed if the operative technique is correct. The uthor uses the Lane technique entirely

I conclusion Behrend states that the surgeon should never fail to remove foreign material when necessary should treat fractures by the closed method whenever possible and should not hemtat t perform an open operation when it is indicated

JOHN MINGHEL M D

Sever, J. W. The Rational Treatment of Fractures of the Upper End of the Humerus Report of End-Results J Am V Au g 3 hxx, 603

In tareful review of the literature the uthor was unable t find v reference t the treatment f fractures of the upper end of the bumerus in the



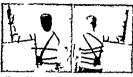
Abduction what There is shring upoght for the forearm, with cross-bar t the end of the horizontal arm for the attachment of traction. The split mag t the analisty and is for fivation of the shoulder. The critical body portion should extend from the axilla to ell below the crest of the ibune, almost to the trochanter just long exough t allow comfortable atting position It should be no wider than the width of the arm

position of abduction, external rotation, and clave

These fractures are generally caused by fall ith the arm held in beluction, the hand promated. and the humerus outwardly rotated The tuberoulty f the humerus comes f really into co tact with the tip of the cromson, and as result the tuberosity is broken of. There may be a fracture of the neck of the humerus, a dislocatio of the humerus or combination of these conditions

There are to main types of fracture of the greater tuberouty In one there as crack running through the base of the t becomity and in the other the entire tuberouty is forcibly pulled off and rotated back ward and outward by the pull of the suprespanatus, infraspinatus, and teres minor muscles These frac tures may be complicated by fracture of the surgical neck, impaction of the head and shaft, r dislocation

Entire emphysical displacement is not uncommon in young persons with fractures of the neck of the humerus before the epophysis is united. The entire head may be rotated upward and backward, and often there is coracoid dislocation. Sometimes this fracture nd dalocation may be manipul ted int position, but usually open reduction is necessary



He a Spiral probed. There is traction on the area. The knursol elekt street round the left those for prevent the arreand splant from this places I

The more set it types of fractures are woulded with capabler t are and expedite loto the le t bich add considerably to the subsequent die labity. Consequently with motion after reduction i contant I ctor in the after tr. tment, and this is accomplished much more e sily with the arm in the idenied and externally not ted posit in than by the old wethod of holding the arm in addression

I ractures of the upper end of the humerus reclassified as follows

Class 1 Simple frequere of the greater tuberout without di placement. The type with upw rd and outwird rd rot tion of the figurest ma to associated with dalor tion of the shoulder

Chair a Sample lists to of the utrical or any torrical arck without durelicement or 1th imnuction of the fragment (r) (the duclacerre t of the fragment but althout disks too of the head (a) with do t lacem at all the transpers and complet beheather of the head, generall a heuracold

Class a fracture of the neck of the humerus. senerally commingted ith fracture of the shult

and without dislocation of bead

Traction with Eduction and external rotation may be accomplished by me us of the ordinary Thomas on splint who the patient remains bed during the tre tment. Latersion in the obtained by means of dheu player stray I strated t the arm and for arm frum porat considerati be obtained from alion the liber of traction or tels for call applied to the arm and & rearm with the ellion held I right angles Ten di I I sufficient time t moure enough union t permit the tutient t be up and bout in an inhibitory splint maintaining the orrect primary position In simple imprected fra tures this sphat m) be eraples ed from the beginning

REDARM 5 ROCK, M.J.

Andersen E. 1 The Late Results of the Reduction of Congenital Dislocation of the lilp ("part results) such Repost in der I ratio course con great) B had f Loger o

The a thor report the hadings of subsequent examination of falcen hip jornts which ere reduced

t n or more years are according t Lorenz Of these tw were normal ly and functionally (we shound a result with normal function, three rai mult with good function are result lith mod I action was d result with good function and ?. tenucal result. It's only modera In all of there cause except the of se most boweds margoring metally core to best also core

Vartin, F. D. and Raight A. Report of New Vethod of the Neck of the Femilia or his r

The limit twee of the w methods of treatment are cases are reported in which wa fixed to the trochanter b 2 wooden seren through t neck and head, and screen t hold the tractured and subunition auth annu as pr three month

This prestment income p fration of the fractured the best chance for union. free motion in the joint proper the circulation. in about half the time re-It also allow ared r

Led, and makes it poss ting position soon

Burdick G. G. and S. Frence In Children

The report overs curred most frequent femore or t most free least frequently in th ira i res of the bead the neck of the bone oblique od opis t

In general the 1 th continuous skir reduction as fire ાં હતા માનેલા સ્પો Open operations treated between] in oals 3 spercest the adorston of reduced the nece hidren to rare crem on trent with suspension Infactory resu erdent was used

There ex four cases in which refracture was accessary became of unusual strain imposed upon the leading loose. Some of the cases showed lengthering on the fractured inde, but in 133 there is no inhortunary when the patient was discharged from the hospital. In sarty six cases there was 5% or of shortcamp, but at the end of a year thirty series of these showed no shortcamp. This proves that slight shortcamp in children is often outgrown.

The conclusions drawn are as follows
Fractures of the femur in children are almost in-

anably followed by good functional result A satisfactory anatomical reduction is not essential for perfect function

The Hodgen or Thomas splint is of value in cases of compound fracture when the administration of an anesthetic is contra indicated and when skeletal traction is the employed.

Open reduction is rarely indicated
Divers W Cana, M D

ORTHOPEDICS IN GENERAL

Shackleton, W. E.: The Canese f Chronic Back ache. /Ilmes H. J. 19 3, xiv 36

The more chrome types of backache include the shed of constitutional diseases and toursems, refers backache, postural backache, and backache due too loronhumous State backaches due to color dominuous State backaches due to excess e time and stress on the meeters and tagranests or time and stress on the meeters and tagranests or state to be the own of the state of the

inch, when manuposted by the musels, as the sixesy rough to vanish an benormal lumbs our Spoudy his deformant is the common pasteral defect old six in it is not necessarily due to indeed libitial labor in an unantural postnon causes backacke. Compensatory stans curvature or moneular hypertrophy as frequently seen among laborers. The shortening of an extremely from fracture common, he disease or uneven growth a another curse of backacke.

Backaches follow fevers, tomalists, syphilis, influenza smallpox, tuberrulous, focal infectious, metabolis disorders, and toxicis due to intestinal horpition. These are difficult to explain except on the hold of a less of except force.

the basis of a loss of muscle tone. Reflex backache is due entirely to javolvement of the pelvic viscers the sensations being reflected through the ganglion and felt as pain in the correspo ding somatic segment. As it descends from the interventival foramen, the fundamental common over the pelver being and is therefore subject to the pressure of periva or abdominal tumors or organs state, materials, or traumate. Myseutra is the most common U unity this is caused by direct volence. Tumors of the back which cause backache are causily metastases from pumary cardooma of the otters, prostate, or breast an V ray examination is unsafely descended and the diagnosis.

The chronic infections of the spane are osteoarthritis, outcomyclitis, tuberculous, and syphilis Outcome chits is not a common spanial lesson and is usually metastatic from osteomy clitis of other bones Tuberculous of the spane is very common. Syphilis of the spane is disease of sdulf life.

Congenital malformations may cause beckache The common malformations not de spina Infida occulta segmented ascrum, and anomalies of the transvene processes of the fifth lumbar vert bra Chronic backache may be caused by injunes. Sponds lustification of forward dishocation of the fifth lumbar erichts on the sacrum as cause of chronic backache. It results usually from the slipping and twisting of the body during the carrying of heavy lovel.

Secro iliac subluxations are tatic and traumatic I cases of the t aumatic group there is a defin te history of direct or indirect traums such as a twist or fall on the feet or buttocks.

Compression fractures are fairly commo. They may become chronic because undiagnosed. Yra examination the bique the antero posterior ad the lateral positions will aid; the diagnosis

Jone Mercania, M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD YESSELS

Glass, E., A True, Roontanesus, Australius, et la Leit Costano Careadà Array the Size of Goode Fag Which W. Curred by Total Extirpations Rapid Desappearance of Servers Enterpolitics, and the Control Careada and Careada and

The aneutrain of the left common currout arters reported had developed for days before the case was seen by the thor. The patient, mann 13 years of age, reportment a such as the patient, and 13 years of age, reportment as the patient attack of pain in the left surfe of his needs while patyling the trumper Locas was demired, but could not be ruled out pout it is although the Wassermann reaction as normal control of the patient patients.

Glass performed total extripation of the anguism, which necessitated resection of portion of the common, external, and internal carotids. The internal gular is was iso resected.

Immediately after the patient recovered from the amenthetic there are signs of severe brain distributions, us paralysis of the right arm and fee and of the right said of the fact. In the evening of the same day total motor aphasis, sleans, prains, seemey aphase disturbances, and right hemitaopid developed. By the following morning these had begin to recreit, and to the third day the recovery was matried. At the end of mostlin, share the patient, as dashingted from the hospital, the erre patient, as dashingted from the hospital, the erre assorbing the results of the patient of the pati

The author attributes the cerebral disturbance terebral inchemia rather thus emboluse because of the absence of Peethe otterval and the rapid and practically complet recovers Gauss (2)

Ridien, J and Berkhelser E J Calcareous Degeneration of the Dersel and Lumber Assess as Cause of Beckacker J in U Am 93 lux 83

Since impairment of the circulation is generally recognized as a source of disconsister in the feet the uthors consider it topical it assume that pair in other pairs of the bods may result from majoriment of the circulation is the muscles of the parts. If this is true, calcurous degeneration in the thorsics and abdominal norts may be cause of backsche. The authors report three not cause.

I the back bone spure and bridges may came sensitiveness pressure adaptifices but also the sportimplings on nervit a the circulatory lange. that is responsible for the part. Circulatory doturbunces which cause inchemia of the mucles are associated with muscular para and stallness.

Factors predisposing I arternoclerous include spalled drauged age alcoholum, goet) dutile as moothnose, and diabetes. Change is the m sels which domains the human are soldierings reductively pers arterlity, visculosoptor disturbances associated ith spasm of the arternoles, and scale caldification.

Intermittent claudication has an implicit cases with persols of freedom from discontinct, seem and all and a seem of the part introlved. Un assential parasibleus absence of pain ben the part is stress and gradual increase of the pain! I such acception to the part of the parasibleus of the pain is such as the part of the part of

The symptoms of sechemia of the merchine doe to calcarceous blood reside is somewhat followed the patient complains of stiffness, meacher est ness, parasiteless, aches normens, and pain of the part savol ed. The pain moderately reagenated on use of the part, a present constantly for extra or mental produced and the part of the control of the periods of freedom may be due! the establishment of a better collateral crumitation

The a thors conclude th t no examination of a painful back in complete and condustry mixed in examination of the circulatory system, and that in many cases the treatment of the painful back should be directed by the internet rather than the evite profest. Waltra C Brexer MD

Doughas, J. Lightion of the Common Bac with Fracial Strip for Angusium. Ann. Surg. 9 J. 122-24, 630

The patient home case is reported as IDEN 1 erm of age hohd had amputation of the leg t the juncture of the upper and middle third of the left thigh because of intection in a compound fracture sustained t el years previously. Seves yeur guass in the glutral region as lossed on exploration to be an assurant, probably of the petral artery Subsequently the peripheral cus showed marked dilatation and there se severe para in the hip At operation performed June 10, 022, the slace resets ere exposed through an incision above and parallel t Poupart ligaraent and the pentsueum reflected inward. The common internal and exter maj pline arteries ere found delated lengthened, and tortoous and the that ears dilated A strap of fascus late 5 by 5 cm as removed from the right thigh passed several times around the comwon that artery about 5 cm above the bifurcation and tied. The fascid step was used because the with of the casel were so thin on account of the naried dilatation that an ordinary sut re might casily cut through them. The patient made suscential recovery the appearant has decreased

in aire and he is now free of pain

Heegistroess, P. Three Cases of Embolect my (Drn Facile von Embolektorus) Upul Lehenf Facil 19 xvms, 7

One of the cases reported as that of 4 year old omms the bad had a carthuc defect not childhood, developed as embodus in the right femoral actery and deed the day. Fire an embolections, Autopor reresided high grade mitral stenours begin may concept the changes in the lines and the spleak infarrt extens; e renal infarcts, and embol in both these and both hypograstire atterns.

The second case was that of a woman 60 years of age hose condition was diagnosed as emboham of the left femoral artery. At operation the throm has an found much higher in attempt at removal as attendorsy and fishing for the thrombus with broate alternation — was unsuccessful because the thrombus was faced to the attends wall over the

prealer part of its extent

The third case as that of woman of y years to had a mitral tenous and developed an embolius in the reteres f the left is extertiently. The mboles was removed by arteratorony on the same da but amputation necessary a cell later and death occurred at the end of month. Autopsystemed high grade mitral stenous with hypertrophysics and the princip with the princip with the same of the right extension and right to make a hall thrombon the size of plann in the tit strick, congestion in the lunger, speen, and right the strict and both hypogramic aircress.

(ILAN (/)

Devicence, P. Kipesitherapy in the Treatment of Phiebitis of the Lower Himbs (Cinfesiblerape data is traitement des phiebites des membres in Riveurs). Presse net Par. 9 1 von 69

Bedow discusses the pathology of plifely in briefly and recommend. Lines therapy, after the subident of the fewer. I general the prisent about a first rest; a spine position with the limb enlend in about the spine position with the limb enlend in a spine position of the limb enlend in the spine properties of the spine of the sevended in . Thomas spinit or similar device the lines in full extension and the foot. Eight ingles to the light of the spine properties of the the light of the spine properties of the spine propert

The restal temperature abould be 1 ken aight ind worsing. The immobilization must be not need as long embolism is feared but 1 is generally better a state of these in this day per after level has 1 m bent for three or four exh. Then, for it which the him is still in pint il dress not should be missed on the ment da the Lin should be balled 1 ht scap not 1 er not treated 1 er.

sperficial and soft efficurage with slight mobiliza-

On the second day the movement should be tended to the tarnal joint and the pattent required to make act a emovement of the toes. Each day thereafter the movement should be increased. In the second week more active motions abouil be liboxed, and finally the atting position may be permitted.

The third stage is one of further muscle training the special attention to the quadriers femoral fourth and fifth stage invole remode training in sitting standing and walking. The ritch includes distrained of the movements recommended.

Armogo Street M D

Brooks, B., and Martin K A. Simultaneous Ligation of a Vein and Artery An Experimen tal Study J Am V (11 9 3, lxxx, 678

I order to study the changes in an extremity which follow obstruction of the primary artery alone and the simultaneous occlusion. I the vein d artery three series of experiments were done

Experiments in which the effect on the temperature of the issues distal to the ligature wa studied. It as found that ligation of the permitter artery resilted in a f. If in the temperature of all the distal tissues when was proposens. It practices the distal tissues when was proposens it practices of the tissues that was proposens it practices. If the artery was obstructed and the temperature of the tissues distal to the ligature became constant at a level below normal best still but room temperature occlusion of the ein resulted in f. rithe temperature of the entire extremity distal to the temperature of the entire extremity distal to the temperature of the entire extremity distal to the temperature of the entire extremity of the artery resulted in a greater reduction even and the sum of the strength lone.

Experiments I test the frequency of gangeries after ligature of the artery alone and after ainful taneous ligation of the ein and artery. The findings in these experiments indicated that ga green following riteral obstructions is depended too some other I ctor than the mount of blood flows go through the creek that I I the obstruction for

hen the prim ry arters of the tremity w occluded, the mount of blood flow ng through the extremit) was decreased, ad who the primary nd artery ere occluded the vol me flow was further decreused, but gangtene was less frequent Thus we not due to retention of blood in the tissues for the tissues require not blood, but an exchange of certain betances from the blood. It is possible that the distribution of the blood with respect to small areas of tissue may be changed by simulta neous ligation of the vein because this depends on blood pressure rather than on blood of me Liga tion of the vel and riery ould cause greater intra ascular pressure is the capellanes and help t pervent the collapse of these reach this resulting a more homogeneous instribution of the blood

It is possible also that an intra-ascular pressure below a certain here in no comptable with the sectioning of mutient substances from within the exclusing of mutient substances from within the reaches to the thousant, Simultaneous ligation of the value of the thousant of the substances of the value of the thousant of the substances of the that even though it demands, the these exchange may be adequate to menicial, the

I Experiments in which the changes in blood pressure in the eins and arteries dutal to the heatures were measured after beation of the artery alone and after simultaneous occhanon of the artery and vein. The intravascular pressure in both the arteries and the veins of an extremity was decreased by legation of the artery alone. When the artery was ligated and the intravascular pressure is both arteries and veine became constant at lower level than normal, obstruction of the velo resulted to resemuatra ascular presente in both the attenes and the venus distal to the ligature. As the blood pressure in the years rose proportionately more than that in the arteries, the difference in arterial and venous pressures was less after ligation of both the river ad the year than when the artery alone was or cheded SANTOR KARN MID

BLOOD AND TRANSFUSION

31 tolay G. A Case of Permanent Poly-cythamia Fellowing Remoral of the Spiece (I in Fall von diversider Polycythaesse such Midragirpation) Or res fact 9. http://dx.

Six years ago the spiern as removed from as the year-old grib because of enlargement of the biones hach, ith jeunder, the had had usee child hood. The epithrey it count as a goognood the lemocyte count so, onco. There were her jumped in the lemocyte count so, one There were her jumped in the property. The spiern and there are greatly enlarged Banti disease. It suspected both benedyte determined.

Three years later the patient suffered this beached durations, and dimense of uson and the color of her face as decided blush red. The blood count showed 5 so,000 erg; throw tes all 1,700 leucocytes. The hemopholun equaled 95 per cent. (Sahli) The neutrophile leucocytes equaled 95 per cent, the hymphocytes 378 per cent, the mone-surface leucocytes caused so the complete state of the 150 leucocytes are sent and the comophilian

3.) per cent
T years later the red blood corpusales numbered, soonce and the hit cells also. The hemosphan was been credited by the blood of the hemosphan was been credited by the red to the blood of the centre o

Jos Losse vars (4)

Diemer T: Further Results of Attumpts to Influence the Harmerightthatten Groups (Neura Untraschungsgreichene unber willkarinke Benbursung der Hannagteinstinengrappen) Vas dierergie die Hel Che 1913, xxx 44

Experience has above that blood transference may be followed by disturbances which, in post-cases, may came death and are dependent upon critical substraces present in the blood. These substructs, notinguistances and substructs are substructed by the substruction of the substru

four blood groups have been recognized.

Transfusions are undertaken in accordance with
the results of testing the serum from the different
groups. To a definite test serum, one or two drops
of blood in sodium circute. In addied in order to deserve the againstantons in the banging drop. The
collection and the deliberate by welcharring. For
the collection of the deliberation of the

Another fact brought out by recenth a that definit processes in the body may change the chanter for the milyet from one hood group to another Further research is necessary t determine the factors controlling that change the body (20)

Fisk, T. L. A Gravity Method of Bleed Transferien.
Y. Tork M. J. & Med. Rec., 1933, CAVE, 48

The athor docuses the advantages and do advantages of the various methods of translusion. The gravity method, he believes, may be used in from for 1.75 per cent of cases in lack translusion as accessary. In his method the recipient is on the scale during the translusion. The appurates and the technique used are desembed in detail.

Det C Roscoutt, VD

Nucrabergar L Clinical and Experimental Research on Blood Transfusion (Kumcha mal experamentale University of the Frage for But transfusion) Entroll f Guard 911, th 91

A all effects have been observed following transfusion when kremolysins were present in the blood of the donor as well as in that of the recipient. The presence of hemogratisms in the blood of the dosor does not cause disturbances, but their presence in the blood of the recipient has produced the ell know pacture of autoracation I order to guard patients from this accident, the transfusion of test done of so com has been traed. This as found t be successful but the procedure has the drawdvantage that if bemaggintuous are present to the reciperat blood, the joining of the essets is done in vain While I would be possible to myert se test from o t so can taken from the vein by means of syttems, this method might expose the recipient i repeated shocks before the proper donor as found Numberger describes procedure which has been used also by Raydia and Glean and consists in

bem used also by Raydin and Griefin and country to bringing together on shde and subjecting to geothe agitation one drop of per cent solution of todays citrate and one drop of the blood of the dosor and of the recipient. If no against mation appears to the end of three minutes, the blood of the donor may be used. Blood has been kept for transfusion for four weeks by placing it in a sterile flask, adding cryge and scaling the mouth. If the flask by holding it

The use of defibrinated blood is discussed briefly and condemned. Yoursenvers (Z)

Burch, L. E. Autotransfusion Surg Gyace & Olst 9 3, xxxvi, 8

The author reports case in which an t transmen was performed on patient undergoing spicectomy. The operation was difficult as the spicen was bound down by numerous adheaces hich were very viscular. Consequently consider that blood especie into the abdomen. More than too on of this was recovered, cirratel, strained, and injected into verm at the elbow. By the time the abdomen was cheef the transfusion was finished and burstly perceptible, but at its completion was one of their perceptible, but at its completion was unusually smooth, and at the end of the certain was unusually smooth, and at the end of the certain the special content of the layer the hospital.

The pre-operative and postoperative diagnosis of splenic anemia was confirmed by the pathologic report.

In study of the interature it was found that of 64 autotransfurnous on record all but four were

done in Germany
From the literature the uthor concludes that

antotransfusion is usually safe procedure. In brated number of cases there will be a reaction. Sodium citrate is not essential as normal salt sol

ton m an admirable substitute, and if neither of these is at hand, the pure blood may be re injected. Extra nterme pregnancy will offer the widest field for the procedure, but in wounds, if the strikers and

Exits items pregnancy will offer the widest field for the procedure, but in wounds I the spleen and liver ounds of the lung producing hamothorax, and operations in which large amount of blood is lost unavoidably it will not only sa e lif but will hasten postoperative recovery

Contaminated blood should be given as a rectal

Occasionally a totransfusio may be used to advantage in certain bitetical complications such aplacents prievia, rupture of the term, and cesarean sectio.

ROBERT M. GEIKE, M. D.

Kayser k. Experimental Research in Hastening Blood Congulation (Experimentella Untersuch ungen sur Baschleungung der Blutgerinnung) Verbaud! d desitek Gesellsch f nu Med 9

A new remedy has been added to the large number already used to check hemorrhape. As with the others, the effect consists solely un hastening the cargulation of the blood and increasing the fibrin Other fact its, such as independent action of the vasomotor paparities etc. are not infusenced Beginning with the observed effect of imjections of emphyllin or ethylendramia in hastening blood coagulation, the endeavor was made to obtain more definite effect by adding at the same tim second blood coagulating agent. The addition of ethylendramia actiate to calcium sails yields a crystalline substance which is easily soluble in water.

Experiments in rabbits showed that cicin of a o per cent aqueous solution of this preparation far surpassed in strength and duration of effect all previously known coagulants. In man, a very slow miection of to com of per cent sterile aque ous solution was given without any undeurable consequences. At the end I twenty-four or eve for as long as forty eight hours the effect was still very pronounced In case of hemophilia the bleeding was stopped in a few minutes after the usual methods of hastening coagulation had failed. In the author' opinion this remedy may be found f great value in checking internal and surgical hemor hages STERREAM (Z)

SURGICAL TECHNIQUE

OPERATIVE SUBGERT AND TECHNIQUE; POSTOPERATIVE COMPLICATIONS

Blair V P Restoration of the Bornt Child, South M J q 1 274.5

Restortion of the bernet chief should be begun soon surgeall possible be critar the better the result post orous epithelization of the onate stool accessive before U grainbase of Enjoyenstoon stool accessive before U graining correction arise pour of from the stool accessive power to the bost Al. Y contractine present in over the hald growth person in pt 1 be complicated by pour results fusions or point and lose distortions become there will the scar freely requiring treatment to be a second or the scar freely present in the hald growth person in the scar freely requiring treatment to be a second or the present new of the half arise present and the present new of the active person fection as the scar freely force or

For accredial treatment it is necessary first to cut the scar sufficiently it allow the remaining skin old tissue to return it their normal positions. In long I admit uses outcopt to resection found manipulat in or tenden lengthering must also be necess in Next the resulting rise surface must be

ered, such epublishing by merusi at Discrete grift (all liberhees stars gift or a slid g or pedick d.p. The Thiresch graft, which the most is and pedical on eithe poorers connecte result and in healing contract more than the others. I see restul full this have stars graft all contract about one fifth to one built as next and as an excellent subtion of the contract of the contract and the concept of the contract of the contract and the tannang is not object terrable; the lift therkness skin graft (the graft of chost. The first graft is therker the the lift thickness skin graft mes some subtractions of the contraction of the contractions of the contraction of the contrac

In placed in field not beoluted in in (serif or f po ne at a onbaget timinal pat the men better from the seria, derects are from previously made reconstruction on plaster.

symma percental many evolutions and only frestrict and it can truly plus or upported on forms to both. The libertesian if its best supported extends in the best of the percentage of the percen

wrang set as dry as possible and applied such handing Persieve over keroform noticeased gate. Where me, two, or three retails the drawing arround and the graft stammed. If there is doubt as to the cleanly the stammer of the product of the product

pemp flaps on the hand or foreirn. When ery this or long flaps are used dela ed transplia tation ill insure their statis. Hornografis from mother I thild even if the blood matches, legua is necrosse after you ceka and any showly lost

Button suggests obtaining the skin from a donor of about the same age as the recupent

The time and appropries of the problem is the Gibes outly, paid. Therefor this paid over a var form) is ordinarily most effects. But seemed the paid over a var form) is ordinarily most effects a varieties of the paid over responding size. The graft-covered form is being another a mericle to actionize the basis and promote at Out the evided and the plot had not paid to the paid over the paid the paid over the paid over the paid the paid over the paid over the paid over the paid the pa

The evolvens man be all similated in full thickness graft t ken from the salp behind the set. If the graft takes perfectly the horr is grant at rail. If shight superficial base of the graft or the hint will be fuzzy and if the full thickness of the epitherial! does the hir of full.

grow

Burnt cars must be unloided and the def 1 cm.

ered wh flaps or full thickness grafts

the second of th

I large array repeated graft up my be necessary t compensat for purish loss or shrinking of the

grafts

A smalle thickening of the scar may be treated by shaving off the ridges and edges and polying a Therack graft by the use of radrum, by excision followed by the application of a full-thickness graft, or by a sliding flap or a pedicle-flap operation

BALTER C BURET MD

Sortical Treatment of Burn Scars. Pierce, G. W. Size Cit | Am out DL St

The author reports three cases of severe burn scars treated a th compderable success. His con-

choices are 1 Different degrees of burns give differe 1 types of scars. The first step in the repair of scars is an

accurate estimate of the amount of turne lost 2 Early skip grafting of burns as followed by a better scar and fewer contractures

Kelold is a new growth and yields best t redotherapy Enrison with radiotherapy is often

mdcated

4. Plastic repair of burns is best done by flaps The surgeon should rely mainly on the basic types of flame

5 Skin grafts re limited in their application, but are valuable about the eyes, nose and mouth Eser's epithehal inlin has many uses and is err relable MARCIA II HOBART M D

ANTISEPTIC SURGERY: TREATMENT OF WOUNDS AND INFECTIONS

Spinsel, N. Tetanue (Bertraege sur Lehre om Ictares) Verse featl d K HES A on UL tempelà 9 3 m. 5 In 132 cases of tetanus there were more cases in

lock a true status lymphaticus was present in spit of the brence of apparent organ deficiency. Tw taxes showed a positive, and tw a questionable states the micus. In five there was points e and m one a questionable status (b) micoly mphaticus cases showed a points e tatus thymicus with questionable status hymphaticus, and to positi status hymphaticus with questionable status thym was Therefore there is relationship, not only bet een tetanus and status lymphaticus, a was wated by Weschselbaum, but also between tetanus and status thymners, and bet een tetants and status thymicolymphaticus Persons ith these anomalies, execually status thy micoly mphaticus, re more pt to recrumb t tetanus than persons with normal constitution Constitutional nomalies of the t pe el puro status hypoplasticus are ol no influence upon the mortality of tetanos. In 4 long cases, bronchopreumonia due t various causes was found in sixty

a se A specific infection seemed improbable The fact that enlargement of the spleen was found in about 4 per cent of the cases suggested Parel afection

Lights fis of the histories reserved gacase of death. T ent)-t deaths were due t orrphested bronchopneumonla (Pribram) and

thirty six to heart failure (concested organs without harmorrhages, ordema of the lung) Very frequently convention of the brain and an increase of the cere brostenal find acre found. In only four cases could sepais be regarded as the cause of death

Hemorrhages in the muscles were found most frequently in the rectus and pages muscles where they were usually associated with waxy deceneration S ben docardial harmorrhages were discovered rarely contrary to Ribbert's findings. It preared that the axy degeneration had preceded the hæmor there. It thout doubt, press to w s a f ctor. deecheration

(see distention of the intestines, which Moencke berg regarded as characteristic of tetanus, was not observed in the majority of cases. Neither were thy road changes conspectious

With regard to the type of musule, the uthor states that shell and mine splinters are narticularly dangerous because they carry particles of dirt and clothing into the wound Least dangerous are smooth, penetrating gunshot wounds wounds come between these t types

Mixed infections are of great importance manner in high the gas and tetanus bacilli i finence each other is not know It is surprising that be term which are carried into the brain the spine the breast or the bdominal cavity v ry seldom ca se tetanus. In such cases it is probable that the toxins are rendered harmless in the injured pers tissue or in the expdations

The six cases of late tetantis in the series suggested the presence of a latent infection and remited more extensiv serum treatment. As the injected antit ran remains cury for only fourteen days. Aschoff and Robertson claim that a second injection should be made eight day after the injury When t is used methodically teta us titoxin will prevent early as II as late teta us a th a reliability th t borders on certail ty EXECUTER (Z)

B 14fle, A. Combination Treatment of Tetarina (Kombanationabehandlung des Tetamin) Zinche f. erret Feribile o E11 427

thor reports two cases and discusses the mock in treatment of tetanus. Although tetanus serum is an excellent prophylactic, there is as yet no specific remedy for t tanus when once t has anpeared. In the severe forms, amons remedies are combined, according to the symptoms. The uthor tress on five points

The pentralization of the t xim formed in the bod before they ttack the ganglion cells I the brain and cord. This is best done by a six da series of intra enous injections of serum. Further doses may be harmful and will be of no benefit. If the incubation period has been very abort, a single I mbar section of a to so cem may be en en and the rest administered intra enously or intra muscularly within the next few day If three us any considerable increase in the ymptoms, the scrum treatment should be storned Local surgical removal of the infectious org nissus. This should be done by incloon followed by palaring with functure of sodius. The wound should be left open.

The alleviation of the spasms and the general 3 The alleviation of the spusms and the general reflex excitability. For this purpose magnesism subplate is best. This is a powerful posson which acts on the beart. As so per cest subcutaneous injection (s to r c cm) is dangerous, an emdyalent quantity should be given as 5 ber cent intra vectous injection only in case of accessity. The effect lasts for from one-half to one hour. In sents arrest of the heart action from an overdose 3 per cent calcium chlorat (at the most 1 c cm) should be administered intravenously. When the magnessum sulphate no longer suffices to combat the spanns, slow chloroform surcosts should be used To word the continuous use of magnessum sulphate during the long duration of the spasme (thirteen days) Barcelli recommended insections of carbobe acid. The author has given subcutaneous injections of so com of a c per cent solution even twice dally without observing any general or local injury

daily without observing any general or local injury
4. Rest. Sleep should be induced in the day time
by means of o or gm of morphine and or of
pantopon and it night by one or i o does of i
or i gm of chloral brights given by rectum

g General treatment. As beart atmulant campion is effective. A liquid diet should be given and the bowek kept open by the administration of sona leaves and glycetime sections. Irrigations are to be avoided as they cause apasm of the abdominal mostles.

So Ver (A)

Solution of the control of the control of the abdominal mostles.

Solution of the control of th

AN ESTRESIA

Hewer C. L. The Effects of Vogal Traums on the Ameriketized Patient Frac Ray Soc Med-Load 9 1, yes Sect Auer 7

The author describes four cases in lack various linds of direct trains t the agos nerve either the right or the left, caused the sudden collapse of the ansesthetized patient. In three cases death resulted.

The heart stoppage occurs in dustole as the again fibers are distributed only to the sino-nuncular nodes and astroles. After prolonged varied stimulation the heart may begin heating slowly condition called varied escape and due to the independent contraction of the estroles. This phenomenon

apparently occurred in the one patient he recovered

Reflex vagal attitudation, as 1 chloreform sters thesis, may lead to results similar to those some after direct attitudation.

From these facts it is evident that especial cars is necessary in operating near the vagos, the sympners dependent upon injury to this nervy must be recognized promptly and the cause of the trains

must be removed immediately

G R. McArters M D

Rees, S. F. Ethyl Chloride as an Ameriatic for Minor Operations on Children. Least, 190

cerv 38
On the basis of appenance in 3 cool directal cases the majority those of children, the nuther regime that children gives a with the closed meriod as the best minor anisothetic because of its safety the constitution of the american in indirect with the hard team be admissistered, the meanifest with the majority and in the majority and the majority in indirect majority, and the majority is not offer majority, and the majority is not the majority in the

recovery from effects of the anisthetic

O R McAnner M.D.

Kutschn-Linderg, K. Experiences with Spinochaic Amerikants (Erfahrungen aus der Spinochausen ausbere) Hers als Holander g. 1, 22271, 215

Following entired review of his cases, the author summarizes has see on splanching angethesis as follows:

With the proper technique splanchare assentioned rep seldom fails, but even moder read currentessers complete analgenas or not all ay obsided. Therefore, in the more danger associated with the aspection of amendment in the aspection in the aspection of association of a topy of the aspection of the aspection of association and particulars made results and sometimes last conductors and a topy of the aspection and particulars made years from the fails of the aspection of the aspection and the aspection of the

The use of spianchnic namethous as rectime procedure will depend less on the technique of an section than on the thoice of namethous (or purious parties) and the possibility of preventing marked distintiumness in the spianchnicus and vagus sepails.

PHYSICO-CHEMICAL METHODS IN SURGERY

ROUNTGENOLOGY

Stannig, K. Practical Rountgen Spectrometry and its Physical Basis. Am J. Reculptusi 9 3, 3, 479

The qualimetry of mentgen rays (the determs author of their hardness, their power of penetration, and the length of the waves) must form the basis of very practical use of the rays in general and for the domestry of receipen therapy in particular. The methods used up to the present gave only an approximate estimate of the wave lengths of the relation

A new system can be built p ally by means of the method of ray analysus made use of by physics To this end the author with March and Fritz, rought to make possible a direct inseptit into the rought of make possible a direct inseptit into the rought pectures and to perfect a method which which be adapted to the conditions of rathological shall be adapted to the conditions of rathological which was a superior of the rathological states of the world be able to characterize with rathological course; the polychromes complex of the radiations had the logical for every spectrum, corresponding to

adution In other words, it was necessary to find key which would serve in practice as simple term for each radiation. The final problem was the

unimation of this key in practice

This article gives about resume of the results of the physical experiments as they appeared to the author and his co-workers at the beginning of their research or were supplemented during the course of their work. Blost of it, however is an explanation of their prectrometric method of analysis and a description of their spectrometer and it uses

The new process has already led to a far reaching uniformly and simplification of reentgenological methods it is, and posternity will be, of importance for all brunches of rindology. However there will be no lack of objections it it. Especially at the beginning the objection may be raised that the descharge of the tension curv. which so far has no regarded of such great importance for the reactive of of such great importance for the contraction of the different types of the produced radiation in the different types of the produced radiation in the different types of the produced radiation in the different types of the contract of the relative composition of each radiation and therefore on the curve of the spectrum.

It a true that other forms of the tension course belong to the different types of tubes, the son tubes on the one kand and the Libenfeld and Coolders takes on the other since a th the icon-tubes it has to with the appearance of an explosite tension which is absent to the description. Therefore,

which is absent in the electron-tubes. Therefore its account of the different discharges of tension for these types of t bes, the necessity of separately ascertaining the quantitatic working power for each with regard to the emitted radiation has already developed. It has been shown, however that even for these types the quality of the radiation, that is, the form of the curve of the spectrum is not obviously different by the programment of testing gainst the different type to the programment of the theoretic than the programment of the current tension curve on the stribution of intreasty such as has been ascribed to the different types of apparatus, is not the to them or a due to them us note highly degree as to be negligible in the protocol utilization of the radia storm.

Simons, A. An Experimental Contribution on the Problem of the Growth-Stimulating Effect of the Rocatigen Rays on Normal Human Tissues (1 spenmentike Reiting sizes Problem der auch tunstragenden Wirkung der Romitgenstraßen ul normales ansachliches Gesebe) Ferické d Gel d'Rectification 9 p. 121, 2019.

Simons proved that small does of the roentgeray may simulate the growth of normal human tissue by triating two of his flager nails with from one third to one-airth of an erythema does and then comparing them with the corresponding fager nafts such were not reducted. Even it the end of the broak return the contraction of the road is a small further simulated. Gazarray (7):

Jenkinson, F L. X Ray Treatment of Tumors. J Radial 9 J r. 29

This article is based upon a series of 900 cases of walignant tumors. The series locked carry and late stage tumors and tumors situated in almost exp part of the body. They were all treated during period of eleven months. A voltage of 800,000 assumed. The patients were admitted to the borgitude of the patients were admitted to the patients which was a stage of the patients which was a stage of

The routine was a cleanous comm the night before the trestrement no food dump the preceding ast lours, and no solid food the three hours immediately after the treatment. One dram of sodium becarbonate in a glass of water was given three times dually during the course of the treatment. The latter usually commend a week. By this prolongation of the course of the treatment, the latter usually commend a week. By this prolongation of the depth and retrievally studed and an effort made to a old rustling nor mall structures any more than accessing.

The thor has noted improvement in patients with spinal metastasis secondary t carcinoma of the

breast, but he regards pulmonary metastasis from breast cancer as unresponsive t radiation. In cases of pulmonary metastams secondary t sarcoma

temporary relief can be given

Of the three patients with gastric casers who are treated, is reacted very well. In the case of the third the treatment was discontinued because of the severity of the systems; reaction. The results in carmoons, of the bladder are uniformity good but

word of ceution is added regarding the use, of netroments or netallations within the bladder during

the course of the treatments

1 case of brest cancer it was found advasable t return to medium voltages became the greater penetration itianed with the higher voltages is not smitable for these superficial lerions unless some artificial media is modified upon the breast to convert the cancer int a deep leason.
In malignant tumors of the mediastimum, pan-

cress, bone, soft tissues (sarcoms) and pituitary the best results have been only fair

The results are summarized briefly as follows

The blood count remained practically normal

in the majority of cases

Examination of the stool showed blood in only five of the abdominal cases 3. Durnhous, pocured in only few cases

4 Mahignancy makes it impossible to give definite prognous — Cavanza II Hascock, M.D.

Figurd, H. Rossingen Absorption in the Bisool and Retracorporeal Irreduction of the Circulation in the Treatment of Cafter (Ueber Resurges absorption on Blist und attraktorporals k-realized bestrakting for Therapse des Kribese) Straklenthreige cost, my der

The technique of V ray treatment of malipanit tumors used to date in based upon the assumption that the tumor cells are perchardy swarts to the rays. On the other hand, the theory has been brought few and that the cheesand obsers are more juminated by the rays and require for their completions all the fermentive and the properties of the completion of the result of the rays and require for their completions of the result of the rays and the few and the result of the rays. The greater the beorpton, the more power full the effect.

Since the absorption of the roentgen rays moreuses with the begits of the ordinal number of an element, the roto of the hemospholm is particularly matable as in absorptive element and transferrate of radiant energy. In addition, room must be particularly effective bedoppedily as it ritted cannot self in our proposition of the transfer of the transfer and the more making these actively hypermum by means of dathermy, neglections of blood and blood transferance.

The athor attempted t irradute the blood out side the body by conducting it from the radual artery through glass tube into the ultur vess and exposing the tube with the blood passing through it t the romigen rays. Experiments on dogs shell because of the narrowness of this limm of the cases When the harvalessness of the unjection of rabbit sed curtated blood into the cruciation of rabbit sed curtated blood into the cruciation of rabbit sed intended bent demonstrated, the extracoporary cruciation became an established in the case of cachette woman sentencing from an adsorour recurrence of curtainties of the beneath in the state of the plants. The length of time during which it is possible to expect the blood it the rays as only arriers monetre capacity that the state of the time to the state of the state o

Mahler G E Managements on T American Deep-Thorapy Machines, with Special Reference t the Donne Method J Raise of tr

The Duane method consists in measuring the fraction of radiation that pease through given the control of the property of an anomaton chamber. The latter is standardized by means of a diamont paramoner in a terms of electrostate wats of radiation. This want is that amount of radiation beautiful former and collectrometry whose by the paramoner of the standardized by the peasintly of electronicity whose bit passes golden to volta Small "a capterior of the standardized by the control of the property of the pr

When Dense method is used, the presence of leakage is first determined and then by mean of stands of cell the reading that corresponds I use decentration until or industion is succeivant. Then the inounishon chamber is placed in the path of the N-rays and smother reading in beaused B used this reading as the immersion and that made with the standard cell as the demonstrator fraction obtained that represents E, the number of eletrostate units of readston.

There we length afestermined in practical on the phononic the sountainon chamber about can be set the fifter and rathing a reading. Then second filter of this threams in affect and a second reading in made. The second reading divisited by the fart gives fruction. This is refused it percentage and the we length in obtained by Dasac charm. By their neithed the output of its deep therepy.

machines was measured. Although conditions we about the same one stackine as from not 150 per cent less efficient than the other. From the behavior of the tube in the case of the less efficient national property to the condition of the behavior of the property to the condition of the property of the condition of the condition of the property of the condition of the property of the property of speaking only of altage milliamperage, et. I depose design

CEARLES II HEACTON, V.D.

Cettherdt, P. P. The Roentgen Ray Ulcer and Its Treatment (Das Roentgengeschwuer und seine Behandlens) Fertsele d Geb d Raentgenstrukten, 0 1. XXIX. 746

The author reports four cases | extensive \-ray lesons which healed slowly and only after the use of various remedies. There were two cases of burn due to the soft rave and two of moury due to the hard

The thorough research of Rost has shown that in the skip the first structures minred at the cells of the besement layer and the newer layers of the prickle-cell layer. Therefore the matrix of the skin. from both reseneration proceeds is excluded. The changes in the other layers are to be regarded as

ecrecks

The choice of treatment must depend upon the stage of development of the ulcer When an X ray when a produced by single overdose f the rays, it develops after period f latency of from the to ave ceks and a usually preceded by an crythema When it is caused by an overdose given in multiple treatments repeated at short intervals, the irritation accumulates but there is no early crythema to ansounce the coming ulceratio and the lesson does not appear until after period of in 11ths or years There is a progressive injury to the blood vessels which at first causes no symptoms, but reduces the minton f the tienes to the minimum. The ulcer then develops when the nutrition is till further re duced by pressure from clothing the changes f old age, or other infinences

The chief symptom and the first t treat in cases of sicer is pain. Cocame adrenalin, and prepara tions of orthoform are to traindicated as they cause further contruction of the blood vessels. As direct treatment, surgery is best when it is technically possible. I the use of medical remedies the pracrite to be followed as the less the arritation the better For mosstening bandages, sol tions f boric and and peroxide of hydrogen re good. As no

irritating salves, boric and sinc salves are recommended To stimulate granulation, black, red, and gray salves are f value Of physical methods, those which cause hypersemia are best. The quarts lamp has proved particularly beneficial at first abort general irradiati should be given and later local strudistions in ddition Radrum in the form of

Koca (Z)

MISCELLANZOUS

radram mad has also been found of value

Kovaca, R. Th Physiotherapy Clinic-A Necessity of the Modern Hospital. V Fork U J & Mod Rec 9 3, CTVIII,

The importance f physiotherapy to the modern hospital was proved by the f et that during the war a per ce t more men were returned to previce from hospitals which employed physiotherapeutic measures than from the thers

The combined use if surgery and physiotherapeutic measures shortens the period of disability and in many cases saves the patie t from becoming a

ermode.

The equipment for modern physiotherapy climic should include all the recognized modalities such as electrotherapy the tatic high frequency galvanic, faradic, and unusoidal currents, the X-ray massage, therapeutic exercises, light therapy baths, etc. Success depends upon full equipment and

trained stuff. The director should be a physician

trained in obvaiotherapy

The value of physiotherapeutic measures in cases fold fractures is beyond disput Hy drotherapy and massage w th disthermy play an important part in successful treatment. Scoliogia flat foot, and other deformities demand physiotherapeut c measures. The therapeutic value i electricity in nerve injuries cannot be measured. Cases, f oateomyelities are benefited by lamp therapy after surgery Josef Miresons, M.D.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHTSIO-LOGICAL CONDITIONS

F y O J Early and Lat Lectors Due t Flectric Injuries. J Ion State M Sec. 9 2 mm, 10

The uthor makes a distinction between electric injuries in which the contact is instantly established without the formation of a spark grap, and electric

burns caused by the presence of spark gap.
Contact should be bruken immediately the rescore finit saming himself of his own nefety. Rubber stones, or even dry cloth or dry board,
ma be used in breaking the contact. The rescuer
should not touch the stum share skin.

Emergency treatment should not be delayed for a ph ucum' arm al. The first few minutes are worth hours of tiention later on.

The victim bould be fud flat on his lack 1th his head raised on pallow never lowered, and with

his chest bared
Attificial respiration and attempts to restore
beart action should be begun at once. Stimp-

lants should not be given by mouth until anismal breathing is res med.

All local imprine with the exception of gra-s

htmorrhage aboutd be ignored until the general symptoms has submided. A cold meets, the apphration of bot and cold water alternately to the chest the subcuttnesses or intra-cross administer two of campborated oil or administer americans, chloroform inhibitions or spanial puncture in the of benefit.

Electric burns should be treated like other burns. The resulting acts is usually less marked.

Electricit causes the gre test damage to the nerves and blood casels, the injury to the lattice sounds mes result ig in gangeroe importation aboutid not be done until default line of dereurch-

tion has developed. The list reflects are confined largely to the nervous system, but the prognous is good even in cases with epilephinorm afficies. Neurona sometimes super rose and south to treated.

Marces II. Rosa . M.D.

Fatt C. F. Jacharmic F t Normalis. Ann Surt

The thor eportual uses of themselves of themselves and it was supposed that condition in both the dispross of sets become other other sets to be the observed due to the past serve and themselves of themselves of themselves of the observed due to the observed due to

returned for observation. I there are a stare symptoms, operative intervention was deemed as necessary

Solutianers fat nerroes is of the in-prome in theil and tend trains are other corollectors, then on the formation of shoops and had release one cyst. It is of internat choof from the prodtors of different it diagnosis. The relation of tenmatic fat necross to potentic fat nerve s_i and formation and possibly to true t meri us crity of larvelagation.

It has been found comparation by east to assist bechamble it increases in assimilability that it do not injury it not necessary for its development. It saller no ferment action is concerned, the obcul factor being simply becheving

Bierich, R. Experimental Tar Capers. In Attents
1. Determine the Character and Artise of the
Cancer Torming Factors. (Lefer 22) representation Territoria. In Artista 22 Artista 22
Richard one der keitelijkning Faktors in
bestemers.) Als Richard. 1 at

The crosses forming action of the as determined by the simultaneous and regular reaction in the protoplism of the epithelial and adjacent terrors of tissue. The new properties which them properties the direct function of the changed structure. Heat protocols are as seen

In research on the carrier form ig ction of tartethe altin of whit mix it a found that the relations builted it the set of local applies as are the epidermis, but that the actis consistent per training the adjusted connect, traine and men if taken up in the blood train and cretical the ladders.

The tursues chief one medit the career home tion are the epubelism and adjacent corps of haf there to take of most most be demonstrated I the eps belt in their in Less byperie tous and then is pertroph (usin must in phy sological growth) The traff to the downward growth or was I the or ecu tinm there is first a I ne of the flers | the ground subst nee th marked increase of t mand ells wh b to wors would the convention turners pene atrible the epithelium A son at the practication easies the or rectire tieur le corper toper to les be la g the latte t ert. idendir a and the man cells dangered aper is achested

The first state of the martish in the sense of the real and to fur of afor by the section further states over per 1 ferrott set and for the first per to the first per the first of the further than the first of the further than the further than

is moreased by amenic, the cancer formation is arrested. Hence this reaction appears to determine the outcome of the cancer formation. Those (Z)

Nather K., and Orator, V. Refractometric Serum Investigations on Carcinoma and Predisposition t it (Refraktometrische Serumuntersachungea weber kerbaltankheit und Disponition). Vall d. Georgie d. Viel. Chr. 9. xxv 6.

Freund harmoer and Nemberg discovered that a specific reaction that place between the blood serum and induced caranoma cells. While it is still me possible to demonstrate the eaction with such critarity that it can be of use t the practicing physical in the properties of the practicing physical in the properties of the practicing physical in the properties of a major that case of the practicing physical properties of an important case of the properties of an important case the blood aerom is smiller if shooth or it dissustigates isolated cares soon cells.

I dedition to the serum obtained from cases of inciser the utbors at ded the serum is favel to receive the inciser to the subjects who were free from cancer. The subjects were draded into a groups, those unde and those out 45 years of age. The most upportion finding of these canalizations was that a consider like period of these canalizations was that a consider like period of the period of the control of the cancer.

Franks F The Recognition of the Regional Recurrence of Carcinoma in the Skin (/or Frien was repossurer kreiserach in der Hast) Zen walls f Chr. 9 ahx 383

By careful escason of regional cut neous recurrence after caranoma of the broast lift may often be pological for years I the glands rem in I ct. The pological for years I the glands rem in I ct. The pological for years I for the pological for the pological for the pological form of shift and the pological form of the pological f

GENERAL BACTERIAL, MYCOTIC, AND PROTOZOAN INFECTIONS

Water k. The %t ristics and Biscerioloss of Gas Harma (all rubes and Hiscerick problem rar Gavardendieser) breast and d. h. g. how resummental.

The uthor reports pon 34 cases of shrapnel our is particularly ounds of the lower trem then which are treated in the period from the

to 8. In the m lenty the heart blood contuned gas even a few hours after death, and because of the hemolytic rison of the gas bacilius, remained fund for long time. The listernal organs and the viscous rysides mappeared to become rapidly inditated with blood. The central nervous system showed nothing christicents C, and in the lump the chief condition was order. The findings in the kindneys and suprurents were not constant.

The detects begins usually in a natury to the much and spread by a y of the substitutions turned and spread by a y of the substitutions turned and the loose threath of the nervos and blood result. I flustgement of the spilers which is usually not present indicates a toxicimia. The exciting organisms for h 1 reinched Welch bacilla and equally often bacilla (b etc.) and the symptomatic anthrax group (Type B) and the group causing muligrant croken (Type, C). The Type B infection runs the most many control of the c

The cases in 1 differentiated into blue and brow econding it the color of the cut income ordern. The bit cases it usually distinction of Type B and C and the brown it infection of Type A. Worthy of not in the brown cases are the severe orderns of the skin the berr brown color of the severe orderns of the skin the berr brown color of the case of the skin of the brown of the skin of the brown of the brown of the cases in characteristics on the united in of ement of the cate, the marked brownly is color of the ordern and the drive condition of the strated move of the cate, and the drive condition of the strated move of the cate and the drive condition of the strated move of the cate o

Ruge, C. The Determination of the Virulence of Streptococci (Virulent entiruning der Streptokolden) Med Ali 9 3 200

The methods used beretafore t determine the virulence of streptococti re either complicated or unreliable. The author recommends the follows gample procedure.

A quantity of the cocci afected material which can be t lean pot to other pl tumns loops is didd to m of fesh obtained diffusing a blood and one loop of the musture is spread out poor is no sterile slott. The visible occi ones men soon disappear of the neithout years the cocci is more soon disappear of the neithout years to be seen to be s

d tions in which ginal smear 3 tested by the thor in this man per the method falled only 1 see. Work ris ris (Z)

DUCTLESS GLANDS

Clark, A 3: The Experiment | Basi | f Fodecri Therapy Bri II J | 5: 5 Fodocrine therapy may be disided int | better

tion the proper and the use of the relativist as phar macological get Lamples (the) tter repit

tuy extrict and adrenalis. In the mitter of substitution therapy the conditions laid down by Gier for the determination of the secretion of an organ have been found too severe. The author suggests the following criteria for substitution therapy.

The destruction of the gland must produce a characteristic syndrome.

The administration of s extract of the organ must relieve the symptoms

3 It must be possible t identify and measure

the extract by pharmacological terts. The production of the actin extract of an endocine gloud my fail beneare braues the gloud may set only as detander or scoret us entract as rapidly as it is formed let any associated this it of because the city properties my be obtained in the production of the contract of the contraction of the contract of the contract of the sheet place when the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contract of the contraction of the contract of the contraction of the contract of th

no resulta

There are note glands whose deficiency produces haracteristic symptoms namely the thyroid, the parathyroid, the islet tesue of the pancreas, the testicles the or nes the suprarenal cortex and meduli and the antenor and posterior lobe of the patentary glast I the case of the thyroid gland the evidence is fairly complet. deficiency can be reheved by the diministration of the extract and the latter as be ident fied as t formids induct vity This is true also of the extract of the islet tuste of the practer but in the cise of the other glands there is no explence t show that the administration of the ones attract relieves the deficiency. How ever the active extract of the pituation supraren I and I less extent that of the parathreed al sels out be used as therapeutic gents in cases other that detailers conditions nothing to do ith substitution therapy The

dequise; I the oral diministration of the phenshould at crain obvious a only less of them has a definit I known action or can be assume ted

Iron the tennal tract

White I beare M.D.

EXPERIMENTAL SURGERY

Hoes, S. L. A Study of the Visibility of Bone After Removal from the Body. Anh Sert. 0.3

The uthor report screen of t enty speriment on ten dogs. The method used as as follows:

Under eibe then not it a separe tech saque t entre mit mal book ero removed from the animat foot One bon it be given tured in the center was placed at nie borthe and

kpti at room temperature, while the other, he being broken as placed in a bottle of physiological softman chlorude solution and kept at a temperature of 30 oderstees. C At the said of proofs, argue from two and one half to twenty four boun the forments were unted with catgust and the two sets of bones bursed in the muscles on opposit solo of the brick of the same samed. The fragments were left in the muscle from forty feer to sattyone day.

An effort was made to determine the vitality of the cells after exposure t such conditions as are persent in the operating room. In ten of the terty experiments the period of observation was less than fifteen days because the animal died. These expen ments were therefore unsatisfactory so in as one clusions regarding the ultimat results are concerned The high mortality of 50 per cent as compared with the prortainty of t per cent which is mustly asso-ciated with transplantation experiments suggests that the character of the experiments as respon suble for the poor results. The chance of injection is of course greater when the hone is allowed to remain outside the body for considerable period of time before transplantation. It is possible size th t in the presence of at least purtuilly degenerated bone the virulence of the bacteris was facressed and that the changed protein of the exposed bone exerted toxic action after the bone as replaced in the animal

There ex is experiments to which more control there in hich citize as formed more than the first red ends and it in hich against home poor ere noted on histologic examination. The results did not popur to be any letter than physical population choices, solution 1 to depress operate solution choices, solution 1 to depress the solution of the control was weed the when the booses were pluced in a weed during which signs of its unit boose were as the most definition of the control of t

as netern hours for both methods.
The author conclusions are as follows.

The estendance cells I boos all sure as exposure period of sincteen hours in air at room to reperiture

There is sufficient activities and in some instance exposed cells it form callus and in some instance for minor of the fract red hone. Her its immediant tion int. Insiste of the same total undependent of uny other source of one-ous elements.

t The demonstration of the sary and the cells of bone after a moval from the how and smooth trends the evaluate exhibit exclusion to this osteolastic cells of bone graft play an independ. I sative rôle in the precessor from negation.

Case D. Vanisono M.D.

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EDITOR'S COMMENT

THE large number of excellent papers devoted I to the surgery of the biliary tract which are revewed in this month's issue of the Abstract form an admirable and comprehensive symposium on this important subject. An experimental study by Specht on the effect of diet of varying amounts of fluid, and of various drugs on the secretion of bile (p 559) and a discussion of the phenoltet rachkerphthalein test of hver function by Hig gurs (p 559) are of particular interest from a chagnostic standpoint. Two papers from German clinics, one by Robile (p 500) and another by Dang-chat (p (6)) on the effect of cholclithland and of cholecystectomy on gustne and duodenal mobility and function emphasize the intimate relation between the gall bladder and intestinal tract and the importance of studying them and considering them as mutually dependent parts of a physological unit rather than as distinct and isolat d organs. Sherren's articles on stone In the hengtic and common ducts (p. 161). Movulhan's descussion of secondary operations on the biliary system (p. 565) and W. J. Mayo's address on the surgery of the bepatic and common bile ducts (n. 503) reflect the experience and conclustons of three of the world's ablest surgeons on the most abforult and critical aspect of the surgery of the bihary tract Crile (p. 562) sums up the results of a large senses of cases operated upon by himself and his associates, with particular reference to the indications for and results of different types of operations and Sumon and Schlegel (p 502) dlacurs the end results in a series of 118 cases

Guthre and Huck (p 593) present a convincing study from the laboratones of the Johns Hopkins Hopkins Hopkins of the Johns Hopkins

blood groups. They he eldestified eight different groups in the come of their linestigation and believe there are still others as yet immerogrand. Their paper is of interest to every surpose who is doing blood transfusion. Giffin and Hanne (p. 500) in a bure paper, discoust the practical and interesting question of the effect of bleening upon professional donors.

A number of abstracts in this month's issue are especial interest to the gento-original partner. A discussion of renal tumors by Essending (5,59) of the surgical treatment of diseases of the protate by Juddle (5,53) of the complexations of nephrectorally by Frontians (p. 550) of the treatment of multiprisate growths of the bladder by Bugber (p. 531), and of an improve of method of treating seminal vescribitis by Kield (p. 54) are some of the subjects of particular importance.

Haug and Hendorfer's paper on potoperature adhesions following generological operatures (p. 521) is of especial value since their conclusions are based on a series of 336 cases in which layout only was performed a second time. The interesting discussion of the diagnosi of that discussibly Kennedy (p. 570) and Aldridge (p. 370)—in the first case with the said of V-ray extandation following intra nitematic injection of sodium brounds and in the second with the help of six multiplication by Robin's method—deserves careful consultration.

A binef review of an article by Voron, Michon, and Sedallian (p. 573) from the Chanté Hospital in Paris on the use of vaccinotherapy is poor peral infection in the forerunner of a number of reports on this subject that will appear in secretaint source.

INTERNATIONAL ABSTRACT OF SURGERY

DECEMBER 1923

ARSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Alber F H. Ununited Fracture of th Lower J With or Without Lors of Bone Surg Cl # Am 913, 10, 10

After gives an exhaust we resume of the literature on maxility and mandibular fractures from Hippocrates to the present time If emphasizes the ecessity for teamwork be

them the surgeon and dentust

The same principles that pply elsewhere in orthopedic work apply in fracture i the paw Accurate apposition I the fragments and immobil My ustil they have united are emential. No trempt should be made to new the soft parts to close the gap antil anion of the fractured parts in correct relation a cil under ay and permanent apanta ha adjusted. Buth the co-operation of the prosthetic dental, an efficient interdental splint should be applied as soon feer the injury as possible in extensive loss of bone difficult plastic

work is necessary. Pedicle flaps are not practical

Showing the inlay bone graft in place held by tendon legatures. Not its slight ngulation Attenteo-tendos legatures ri cortemy luck adapts at t the paw fragments, restor at east to of boos loss

because the bone cannot be moided accurately and the graft is too thin Several writers are quoted who claim that in mandibular psendarthrosis the osteopersonteal bone graft has not been successful Clinef among the causes of failure are the sharing of the graft th the mallet and chusel, the clause of too much time between the cutting and polication of the graft, and lack of dextenty

The uthor uses number of m tor-driven tools of his on design nd usually bta is the graft from the tibia or thum. When there is loss of soft

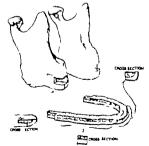


Fig. Showing the jaw fragments prepared for the recition of the larg. I shaped graft from the wing of h. Hrum, which restored the loss of substance in th lower jaw from the last molar on one side t the back of the hast molar on the other. Not the shoulders high ere cut in the ends of the graft to restrict an accurat at of the graft with the bost fragments.

traves, he always corrects this first by means of pedicle flaps, delaying the bone grafting until after the soft twones have taken hold

The general technique of the operation is described, and several cases are reported

I L Business M D

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Allport, F Cornell I juries in Industrial Occupa-

The corneal injure most frequently seen in falustrial work are due to small foreign bodies which are lodged in the corner by the primary force or become rubbed.

with boties should be removed under streetly septic conditions, with local amendment, concentrated filmmansion, and the use of strong magniing street. The location of the particle and is depth about he ascertained. I racket lying loosting the street of the particle should be consolided most be removed, if he is estimated. In instrumental removal the following rules about he observed.

Get the instrument under the foreign body and lift it out.

Leep the nour, of the corner annumal.

3. Work in ample and concentrated illumination staming with discrete in ordered, especially when the printies in evalually. The enchanged item even first the removal of foreign body should also be removed. Care most be taken nor to mistake openment spot on the une for foreign body.

If the correct extension shight impartison be used of so per cert inprod of bashbords outcome, and observe two for so per cert inprod of occurs by the form of the result in the reason but to there in overtable orneal inputy or if infection is perse; it in ad sable grathy if castering the probologic times in the infection of the

In cases of deep sloughing ulcers followed by hypogyon, etc march for external causes should be made. Syphilis kidaes lewons, diabetes, disease of the treth, topuls or smuses, lithrymal disease are some of the important conditions t be looked for and carrected. The diet should be regutated as to overfeeding and bout 130 gr of sodran theylate should be go en every t enty-four-hour period. In the presence of trachoma, brushing the everted eyelids with borne cad powder to or three eck is beneficial. Caustica are contra indicated to called intensi treatment three times a day may belp. One drop of per cent atropase should be dropped int the ey every five minutes ax times, the solution being prevented from running into the nose by pressure os the tear duct. In the menture heat as strong as bearable should be

applied. At the ead of the half hour period, down arroug cooping to produce as orders of the can juncti. — temperature if it is a per trait solution and increasing, as necessary to the post der-should be used. From ten to feltres rubates hisr the trait ment about the completed in the use of strpnot and mercural containst. In some case of hyptory of the native or chainly mark to population and order to be a superior of the containing and order to be a superior of the containing and order to be a superior of the containing as or effect not becomes process or the containing as

The author does not use the actual electric castery as much tod y as formerly because of the cess of perforation. Trace 's pustienties' and salton functival sejections of bachloride, path, thosan, path,

etc he has found disappointing
MANTEET R WALTE, M.D.

Driver W. E. The Granker Importance of Varying Fields of Vision. Largers M. Month. 1913, 1915

All points of the fields of vision, I done with pure thing care, will be of great and in diagnosis and in the decision as to the type of treatment. It is neceseary to m pour not only the form fields, but the the color fields and bland point. Frequently there is even early evidence of organic leasons Temps D. Attack, M.D.

Balls) J.H. The Surgical Ameterny of the Lachs?: prol bac 4 or J. Ophia 19 3, 3 t. 11, 663

The author excites in considerable detail he book transec of scatters in considerable and ingranded book of the control of the property of the control of the control of the discussion of the differenties that control of the man of the control of

THOMAS D ALLEX, M.D.

Peter L. C. Bilt Lamp Studies of Hernia of the Verrous in Relation to Cathenet Operations And J Opick 9 3, 3 vn, 644

This article is breed on the lamp studies of herist is due vitricos following the extraction or sports assume absorption of catanets. I two cases of termnatic cut ract the introduced the seet produpedinto the nationer chamber. Four cases of heris, the introduced are reported four the first of heris. The introduced are reported four the first opening capacity in the produced of the control of the section by the Small nethods.

While the external appearance of the co-operated upon by the Barrequer sectled was perfect, the self lamp revealed learns of the treos and many operates. In the cases operated upon by the Sembler and the external appearance was poor but the

ins was not tremulous and the internal conditions were good. The author believes that although ducumon has been done for years, the possible damage t the vitreous is greater than has been sus-VIEGE WESCOTT M D peried

Killick, C. A Series of 100 Cases of Cataract Remered under Subconfunctival Bridge. Brit J Ophris 9 3 11, 300

Isfuenced by the work of Termen and by marked loss of vitreous in two successive cases in his own practice the author changed his technique in cataract extractions to the use f a subconjunctival boile

The method was advocated by Desmarres 1 855 but as later abandoned even by its originator In 1898 Panner and m 1800, Vacher revived t but as not generally accepted. More recently B jards, Lundaguard, and Cridland ha sats ocated All have reported ery excellent results especally as t complicating afections renversement of the corneal flap and the loss of a treous but drait that it is somewhat difficult

The a thor' method is copied from that of Terrien hose technique was very similar t that of Desma tes The incision is made a th puncture and courter puncture t the limbus and the section a completed with a conjunctival flap which is not cut through but left as bridge This bridge arises in width the average with is bout 4 mm. When the auction has been completed the flap is turned backward and made to gibde beneath the conjunctiva as far as possible, as the longer the bridge the cause the extraction and the broader the bridge the better the coaptation of the wound lips. Care must be taken to keep the knif edge from touching the speculum. The orthnary technique is then I llowed except that everything is done subconjuncti all the combined extraction is performed the author prefers the innerside (the right ex for the colo boma and the outer side f the left ex-I selected

cases almple extraction is preferred Uter the cansule has been opened with cy t tome the case of the extraction depends upon the and of less and, t great t t pon the bridge Depressing the upper hp f the wound with patula I asset in the deli ery of the lens is unnecess in as simple personne is sufficient. As the bridge, ill not permit overgrips g of the ound considerable permits in y be exerted. After the lens has t reed grate guidanc upward and I trail as ill the tra becessary. Once in while division of the bridge may be indicated. The opx time is oncloseed in the usual 3 by smoothing out the iris and instilling tropene in cases of irelectomy and eserine in the others A single or bil teral pad is polied ind the patient allowed t alk bi k t his room from the operating room. At the ad of t enty four hours, the eye is examined and the dresungs re hi ged The patient is flowed t get p from t enty four hours t three days nd gl sees to gi en on the Ath, with or seventh d ;

The advantages of the operation are that it safeguards against infection and loss of vitreous and that the surgeon has complete control of the eye when the bridge has been fashioned. The disadvantages are that the bridge constit tes a complication and makes the operation less easy. In none of the uthor's cases was there delayed healing, excess ha morrhage into the anterior chamber or prolapse of the ira

The one contra indication t the operation is narrow pulpebral fasture. For a fully tipe cataract. of the ordinary type it is almost ideal MANTORD R WALTE, M D.

Lippincott, J. A. Local Anasthesia an Adjuvant in Ocular Therapeutics I th Process of Absorption under Nerva Control? 4m J Ophik 0 1 3

Lineancott reports to cases which the name failed t dilat in the presence of corneal ulceration until, in one case the m dri tic was heated to the boiling point and in the other the cornes was anasthetized th cocamo before the instillation of tropune. If reports also fivf senes forses

high he used non-mydratic anesthetic in one ey before natilling a mydn tic in both eyes. The pural dilated more quickly ad to greater extent n the anethetized eye I fiv other cases the pu oil was dilated with drennlin and mon my dri the

narsthetic was used in one ey I DECEMBER MANAGEMENT MANAGEMENT

Cheney R C Th Bectericidal Power of Arthrol Im J Oaks og 1

The athor found by experiments that argued is most effects e as a bactericidal agent when the bucteria are a ll separated and is kast effective when they are clumped together and surrounded by ED CUS OF PUS Sil er mirate was found more effective than

rgs rol I DECR. WESSET M.D. Grimsdale II Disease of th Retinal Venels and

th Early Signs of Arterioscierosis | the 15 Med Pro CELL 9 1

The large number of physiological vari tion in the fundus ocul must not be must be for pathologic hanges Puls tion of the eins occurs in normal persons but pub tion of the reeries indicates ren eral duesee such as aortic insufficiency or local drense such gl coma The rienes dilat fite s) tole of the entricles while the eins enlarge just before a stole

The condition of the retinal casels as seen with the ophthalmoscope is good indication of the condition of the cerebral casels. The thor divides artered ch ges 1 t 1 groups those due t increased blood pressure and those due t angiosclerous. If believes that retinal hemorrhage is sign of general disease of the blood, and that embolism or thrombous reduct patchs ango-SCIETULE. Amen. Williams, M.D.

Goes, H. L. The Effect of Blood Transfusion on the Retinitis of Pernicious Anomia. Am J Opira 013.5 YE. 66

Goes draws the following conclusions

I Transfusion does not prevent the further oc currence of hamorrhages in the retina a Transfesson does not cause the retinal hermor

rhages to become absorbed any more rapidly The remot effect of the transfusion is gradual lesseming of the retinal orderns and

crease in the tendency toward hymorthage 4 N change occurs in the retina as an immediata effect of transfumon Thomas D Array M D

EAR

Mollhon, W M. A Case of Vertige Cured by Opening the External Semicircular Canal. Proc Rev Sec Had Lond 9 3 xvs Sect Otel 60

The uthor reports a case f goldiness and tinnitus in a man aged 4 years which as relieved by openmg the semicircular can't The omet of the suidness was sudden and the attacks recurred at frecoent intervals

Examination of the ears showed normal membranes. In the right ear the hearing was good, but in the left ear almost absent. There was no secotaneous mataginus. The calone responses on both sides were shagesh. Past pointing was good on the right side and absent on the left side. Four weeks after the opening of the left semicircular carril the patient was entirely free from crtigo and could hear whereer t distance of 8 ft from the left ear Six

weeks later the affected ear was found to be deaf The operation was performed by opening the mastold exactly as in an ordinary mastordotomy well exposing the adutus region to obtain good view of the external semicurcular canal, and then chipping the canal open TANDS C BRANCHL M D

Hubert, L. A Study of the Mechanism of Pain as

Seen in Otological Cases. Larywerscope, 923, **222214, 596**

The other divides pure in etological cases in three types war sometic, autonomic, and psychic Sometic pain is caused by irritation of the pain

sense organs or the pain perve fibers of the ear or by irritation of these nerves or closely related nerves distributed to structures some distance from the ear. In the latter metance there is no discuss of the ear proper, but only pain in front within, or behind the car. In some cases sometic pain may be due to invol ement of the sensory ganglia hich supoly the car with accession

The presence of autonomic pain is or around the ear has not yet been definitely proved. Its existence will depend upon whether or not afferent autonomic fibers are present in the nose, susopharynx, and

buccal carnty

Psychic pain has its origin in the cerebrana and is referred to the ear especially to the mastead IANES C. BRANNEL, M D renon.

HOST.

MacPherson, D. Fibroacresses of the Nasopheryna Treated by Operation and Radium. Layerscope, 913 xxxxx, 653

MacPherson reports a case of abroaucous of the masophar) nx in which the swelling extended over the antrum and completely blocked the night ade of the nose. The growth as within the antrem but attached to t by only small fibrous trabecule which were casely broken down by the finger. Its site of origin was the lateral all of the pharynx and the sphenoid bean. It was removed from its attackment by the anterior routs of the antrum. The operator was unable t remove its base as it as very family attached and the operation was ery bloods loss of blood necessitated the intravenous admiss tration of saline solution. In the future MacPherson ill the the carotid before attempting an operation

of this type After the operation approximately 0,000 men

hrs of radium treatment was given One year later the author found a recurrence in the nasopharynx, but he believes that the growth ill be controlled by the use of radium

JAMES C BRAFFELL M.D.

Loftes, J. E. Gerebrosphus Rhinorrious, its the Report of Case Ley peerje, 9.3, ross, 6.7

Cerebrospanal rhinorriors is a rare affection which as characterized by the escape of cerebro-post fluid into the nose. The literature reports twenty three cases, the first was described by King in 1814 The etiology is obscure. The athor is of the opinion that there is congenital defect in the base of the skull and that the embryous canal may be forced open by successing or coughing, direct commumcation being thus established between the roof

of the nose and the third entricle The chief symptom is the dripping of clear watery fluid from the nose. This may be miter mittest, occurring seally or monthly. It is most raped when the head is in the upright position and the amount is increased when the patient strains or becomes excited. Usually there are associated st symptoms and symptoms of intracrantal pressure

The diagnosis is bused on the dripping from the The find is nose and an examination of the fluid free from taste smell, and sedament. It contains albumin and globulin in small amounts and substance hich reduces Fehling solution Its specific ements as low

The prognous is unf orable as the condition is merally fatal There are only two cases on record in which an apparent cure as obtained.

Nothing can be done in the y of treatment. It is not only useless, but even harmful, to check the flow of the fluid Nasal treatment is contra md exted Lumbar puncture has proved ansoccessful

The athor reports in detail case of cerebraoman 40 years of sate. anual rhinorrhors in JANNE C BEAUTIEL N.D.

MOUTH

Gibbon, J. W : The Surgery of Flarelly and Cleft Palate Deformities, Seeth M & S 0 3 harry

155 Harelin and cleft-relate deformities interfere scriously with deglutation and general development Therefore, operation is followed by marked improvement in the general health as well as in the sub-NOT'S ADDRESSANCE

Embryologically the closure of the lip and palate proceeds from front to back the lip first, then the alveolus, then the hard palate, and finally the soft palate. By the eleventh week funtra-utenne hie. the amon of the parts forming the hip siveolus, and

palete is usually complete

The rathor believes that if the general condition a attisfactory harelip should be repaired before the child is a months old, and that the bone repair should be completed at the month or tenth month. This is m accord with the views held by Berry New Richie, Thompson, Roberts, Davis, and others, but contrary to the opinion of Brophy and Blair who believe that the alveolus should be operated upon early

The general principles underlying harelip and cleft-relate surgery are the maintenance of an ade quate blood supply and the prevention of tension on the actures and sepais. In operations on the lip the most important points are the prevention of notching, the correction of the widening of the nostrile, and the care of the premaxilla in belateral clefts

In the uthor's opinion, the palate should be operated upon, if possible at about the eighth or much month, and certainly before the child begins to talk. WILLIAM B STARK, M D

Rhein, M. L. The Present Status of the Pulp and Reot Gazal Problem & Leek W. J. & Vel Rec 9 3, CEVEL, 148

The author gives a brief historical review of the fallers of the dental profession t solv the root casel problem, pomting out the f ct that, in the past the importance of perfect asepus and the elimination of injection was not appreciated, d that even today the general practitioner is not treating root casals properly One explan tion is economic one, as proper treatment requires great deal of time for the careful removal in perfectly sterile feld, of every particle of pulp tissue and for perfect theg of the root canal and reentgenograms to check up the progress and results. This renders the expense almost prohibitory to the erage person The only solution may be t refer all root canal operations t the specialist

The percentage of failure depends upon many conditions, but in the beence of infection a successtel result should be obtained in 95 per cent of the tues. When only the pulp is injected and the periterrentum is intact, successful result should be obtained in 80 per cent of the cases. If hen the percomentum has been destroyed by infection or when Persons treatment has failed, the wise operator will

refree to attempt further treatment, although in a small percentage of cases there is some chance of enceri. CRARGE W FREEWAY DDS

THROAT

New G. R. Concenital Obstruction of th. Larvax and Pharent J Am M Au o a loom tot

Six cases illustrating different types of congenital betraction of the larynx and pharynx, a rare con dition, are reported. This condition may be due to various causes. One common symptom, respiratory obstruction in the newborn infant, was present in all, and formed the basis for the study

Consecutal larvages | strider in a boy 8 weeks old. The harvness obstruction was due to the approximation on majoration of the ary englishtic folds. The condition did not demand treatment and

the child gradually improved

Case a Congenital middle line or bilateral abduc tor position of the true cords in a mentally deficient child t months old. The obstruction did not require immediate treatment and gradually decreased

Case t Substitute lan necal disphraem in a child year old The tracheotomy tube was re moved about one year from the time of the primnal examination, and as no obstruction followed treat ment was considered unnecessary child o

Cas 4 Angroms of the larynx in

months old. The angroma cleared up under radium treatment

Case | Langual thyroid in boy 334 months old The typical tumor was found at the base of the tongue The obstruction was not sufficiently marked to require treatment

Case 6 Congenital flaccid tongue and nalite in child months and 3 weeks old The child could not eat or aleen. On inspiration the toneme was sucked back against the posterior phyryngeal wall, causing partial obstruction, and expiration the neck ballooned up as the soft palat and tongue pproximated. The opening was maintained in the phare nx by the use of a mece of curved celluloid, and the child eradually improved. Ultimately the celluloid pphance was discarded

No cases were found reported in the hterature similar to Cases 2 and 6. It is assumed, therefore, that is additional types of the condition are described in this report OBNWMD

Thomson St C. A Laryngeal Case Apparently of I pithel oma (Possibly Syphilis) Complet ly Healed and Arrested under & Ray Treatment Without Operation. Free Rey Sec Hed Lond 9 3 x11, Sect Laryagol 60

The case reported was that of a man 68 years old M croscopic examination showed the growth to be an epatheboma Operation was refused because of the extension of the proplasm and the patient'

The radiation employed was the most penetrating which a 6-in coal would yield, increasing up t out spark and approximately from 130,000 t

130,000 dis The filtration was firm of abundamia and a paid on the slut. Taxe a week for a month full done of the rays was directed to the largest from the left side and then from the path side. S becquently this was repeated at fertingishy note which for the path of the result of

MECK

Hebson, F. G. A Comparative Study of the Basel
Metabolism in Normal Men. Quart J. Med.
223, 271, 351

Fifty-one male subjects are examined in an attempt to establish base line for the basal metabolism of normal persons. A very careful check was made on these subjects t establish their pormahty in relation t their weight their physical fitness as fudged by their vital carrectly and pulse remones to exercise, the hamoglobus content of the blood, the blood pressure the respiratory rate, and the pulse rate while they were lying down The examinations were made in the post-absorptive state, trealed to fourteen bours after the last meal and after a rest of one to one and half hours following the walk or bacycle ride to the office they were made at room temperature between 6 to so degrees C and when the temperature by mouth was normal. Five of the fifty-one males were rejected as not pormal

nity-one make a ser excited as not normal. The metabolism was actinated by three methods, those of Senechet DaBoss, and Dreyer and the calculated normal weight was meed as well as the actual weight at the tune of the experiment. The subject ranged in age from 9 to 40 years. Most of them were achool boys, students, preference, decrees, and laboratory workers.

The conclument drawn from the investigation were as follows

Wa

Dreyer' formula, CNA 0 1333 = K being approximately 0 y and K equiling 0 or 1 m makes, expresses the busal metabolism in an extremely satisfactory manner over a wile range of body sure

- and age

 A definite and important improvement between

 a kindation and observation is obtained when the
 calculated ormal weight is used for purposes of
 calculation instead of the observed again
- 3 Healthy persons whose observed eight differs from their calculated weight may have a metabolism which is entirely pornial, considered in relation to their calculated or normal weight.
- their calculated or normal weight

 4. From both theoretical and practical standpoints the calculated weight should be employed in
- calculating the normal basal metabolum 5 For persons leading healthy acts. Life with opportunities for physical recreation, the K in Direct formula will be found equal to pproxi-
- matchy coope instead of c c c
 6 Drayer formula is highly satisfactory from
 both theoretical and practical standpoints. It is

an improvement upon the methods of Benedict and DuBose in that if holds time over a wider range of age and weight with greater accuracy and is based upon sounder peneciples. Master H. Houser, M.D.

Starfinger F; Physico-Chembell Investigations of Thyroid Problems (Physich-chembel De treachages and Schildmentyrchies) Het 2 Georges & Hel Cler \$23, 2274, 514

As the crustence of specific internal secretors of the thyroid his not yet been proved, the subsestuded the blood plasma which, during his passage through the thyroid, would come into closest contact with the shypothetical secretors of Alprevious studen have been made on the psembersh blood lick of course, above no purely through formous action

Physico chemical examination revealed differences in different in the plasma from the thyrold vens and arteries in the mone that in the vest majority of cases the atternal plasma seemed to define him readily than the venous plants. In percentage of the cases the findings were cut the reverse Changes in diffusion of the first type indicate chalcally morphologically and physico-chemscally a goster of hyperfunction, while the lower ing of dulumon in the venous plasma is character setuc of souter of hypotherection. On these grounds the function of the thyroid is conceived the the break my down of highly complex protein molecules and the giving off of protein derivatives into the blood stream. The occurrence and derive of this breaking down process is dependent upon an energetic citis lytic agent which does not innire the gland. specific secretion in stronger sense is to be desired. The overworking of this function leads to functional hypertrophy and ultimately to the formation of a

On the basis of this sorting hypothase viruses factors reparted chancilly and representably is predisposing are explained. The assumption of specific conjugates from for an entire class of postern across superfluors. The catases are various cade, comes, physiological, and philological presents which have as common characteristic long-continuous common characteristic long-continuous common characteristic long-continuous common characteristic long-continuous common continuous common continuous common continuous co

Harnes (Z)

Reed, T. and Clay H. T. A Burvey of Thyroid Es-Furjement Among the Children of Grand Rapids, J. Michigan State M. Sat. 1923, 123, 23

In a survey of the school children of Drand Raped sumbering 90.7, childreness of the thread glast was found in 50 per cent. Thirty I, per cent at those affected are boys and 67 per cent. ere gain The examination consisted of impection and early full pulpation of the thy read gland, subspaces, are called the per centre of the period of the centre of the period of the dataset of the period of the period of the period of the dataset affections were graded to

The frequency of thyroid enlargement was rather high among high school children ranging from 18 to 60 per cent in different schools. Two and one helf times as many girls as boys were found to have a throad tumor. The incidence of the condition increased in both sexes from the fifth to the fourtee th ver of are. The changes t puberty are perhaps accountable in part for the higher incidence in surls No cases of exorphthalmic gotter were discovered

While only shight enlargements were found in boys, the draese is more frequent among boys than a renerally surposed. The routin administration of ro mann I sodine has been urged by the health authorities as a preventive measure

WILLIAM I PERSON. M D

Littenburger 17 The Prevention of Golter and Its Recurrence (Du Verhnetneg des kropfes und des Kropfrenderen) Schuer men IV chusche o 3 hin

In the enology of gotter a deficiency of sodine play an important ole. Indine undergoes slow metabolum in the organism Eggenberger estimates the to be occ am daily The thyroid is an iodine reservoir and sodine is an indispensable inorganic constatuent of food. Gotter and cretinusm must be reparted as diseases of the thyroid gland due to solone deficiency. Even minute doses if iodin (one drop of 3 per cent sol than of potassium notice daily) given over a long period of time have a prophylactic action | Iodine occurs everywhere in nature in minute quantities chemically difficult to detect. The sir and water contain greater quan-tity the closer the sea is pproached. In enclosed areas the soline content. I the sir is less than in open areas, as soding as beorbed by man and by objects. Plants and animal hodies are rich in sodine Of foodstuff eggs, green vegetables and salt sater felt are particularly rich in sodine general, gotter free region so one in which there surplus of soding. In Alpine regions there is very little rodine in the water. The small thyroid glands of gorter free regions contain more sodine than the large ones of gostrous regions. Indine is best given artificially by dding potassium sodide to the table suit

In the discussion of this article Hemschen em pleazed the fact that not all gosters respond t Some respond much better t calcium chlorde bromine, or silicie and Magnesium sili rate, calcium lactate, and sodium bromide have proved effective in the treatment of soft goiters and also decrease the size of large goaters. Komeso (Z)

Betzler A E The Nature and Treatment of In teretitial Gorter \chestle Stele M J 9 3, van,

Persons rik intenstitial goster are nervous and mushle loss wight and sleep, and suffer with tachycardia and flushing. The pothologic changes a tim condition are characterized by an increase n the intenstitual cells flattening of the acmi, and a change in the colloid Function is Impaired The gland somewhat resembles the thy road at the fourth or fifth year of age

In an adolescent sorter there is merely an increase in colloid and no change in the cells. In an adecoma there is an increase in epithelium. In secondary degeneration of colloid gotte the colloid shows different degeneration and the cells are frankly

trophic.

Int rational scotter is most common between the eighteenth and thirtieth years of age. The subjects are usually tall slender girls who become fatigued easily The metabolic rate is of increased, and eye argns are uncommon The gland a usually small and somewhat tender Tuberculous can be differen tiated by the Goetsch test

As a rule operation does of give permanently entisfactory results because function is decreased The author therefore operates only when the gland is very large. H gives bromides to reheve the nervousness and sleeplessness, and jodides t stimulate the gland Improveme t requires many months Persons with interstitual goiter should be examined carefully for ther pathologic conditions. A large umber of them will be found to have pelvic MARCIN H H BART M D dworder

Williams, F. A. Boothby M. W. and Wilson L. B. The Heart in Exophthalmic Golter and Adonoma with Hyperthyroidism, with Not on the Pathology Viel Cl. V Am 923 vn, 89

Much of the confusion with regard to the cause as well as the treatment of the cardiac phenomena of exophthalms gotter and of adenomatous gotter with hyperthyrodom has been due first, to mexact knowledge of the symptoms characterizing these diseases, which result from improper increased activity of the thyroid cland, and second, to failure t differentiate them from more or less similar syn dromes such as cardiac neurous, the irritable heart of soldiers, disordered action of the heart, and neurocirculatory asthema, which are not attributable t improper functioning of the thyroid gland

Exophthalmic gotter is constitutional disease pparently t an excessive, and probably ab normal, secretion of an enlarged thyroid gland show ing, pathologically diffuse parenchymatous hyper trophy and hyperplasa. It is characterized by an increased basal metabolic rate with resulting second ary manifestations, a peculiar nervous syndrome, and, usually exophthalmos and tendency to gastro intestinal crises I vomiting and diarrhora. The cause of the pathologic process and ctivity of the thyroid gland is not known

Adenomatous gotter with hyperthyroidism se constitutional disease due t the presence in the thyroid gland of denomatous tissue which, by main taining an abcormally high and unregulated concentration of thyroxin within the body causes an increased basal metabolic rate with resulting second ary manifestations

The most outstanding fact shown by the date presented in this article is the infrequency in both exophthalmic gotter and adenoma with hyperthy roadism of symptoms indicating cardiac disease

younge with The filtration was farm of abundance and a paid on the sam. These as week for a month a full done of the rays was directed to the latera, first from the jett dode and then from the nght and Subsequently the was repeated t fortunghtly interval for several months. Altogether twenty hours of exposure were given from January to November 100 miles of the property of the pr

RECK

Hobses F. G. A Comparative Study of th. Basel Metabolism in Normal Men. Court J. Med. 923 271, 361

Fulty-one male subjects were examined in an attempt t establish a base line for the breat metabolium of normal persons. A very careful check was made on these subjects to establish their normality in relation to their weight, their physical fitness as radged by their vital capacity and pulse response to exercise, the hamoglobin content of the blood, the blood preserve, the respiratory rate, and the pale rate while they were lying down. The examinations were made in the post-absorptive state, twelve to fourteen hours after the last meal and after rest of one to one and a half hours following the nalk or bleycle ride to the office, they ere made at room temperature between 6 to so degrees C and when the temperature by mouth was normal. Five of the fifty-one makes were rejected as not normal

The metabolism was calculated by three methods, those of Benedict, DuBos, and Drejer and the calculated abound weight was used as ell as the actual weight at the time of the experiment. The subjects ranged in age from 9 to 40 years. Most of them were school boys, students, professors,

doctors, and laboratory workers

The conclusions drawn from this investigation were as follow

Dreyers formula, Wa 333 = K, being p proximately q and K equiting to 5 in estales, expresses the basal metabolum in an extremely satisf ctory manner over and range of body son

and age
A definite and important improvement bet een
calculation and observation is obtained when the
calculated normal eight is used for purposes of
calculation instead of the observed weight

Healthy persons whose observed right differs from their calculated cupit may have inetabolism high is emirely normal, considered in relation t their calculated or normal right.

4 From both theoretical and practical standpoints the calculated weight should be employed in calculating the normal basel metabolism 5 For persons leading beauthy artin his with opportunities for physical increation the K in

Dreyer's formula will be found equal t pproximately eggo instead of 5 6 Dreyer's formula is highly satisfactory from both theoretical and practical standpoints. It is an improvement upon the methods of Benedict and DuBoes in that it holds true over—wider range of age and weight with greater accuracy and is bessel upon sounder principles—Mascu H. Houser, M.D.

Starlinger P.; Physico Chamical Invertigations of Thyroid Problems (Physical-chamache Unitroscheogen som Schuldressuproblem) Mar & George & Mal. v. Chr. 1921, 2279, 114

As the existence of specific internal securtion of the thyroid has not yet been proved, the embor studied the blood plasma which, dumng its passage through the thyroid, would come int closest contact with the hypothetical secretors. All persons studies have been made on the perspheral below which of have been made on the perspheral below which of

course, shows no purely thyroid hormone action Physico-chemical examination revealed differences is different in the plants from the thyroid case and arterus in the sense that is the visit majority of cases the arternal plasma seemed to diffuse less reachly than the venous plasma. In a mader percenture of the cases the findings were rest the revenue Changes in diffusion of the first type mincate chinically morphologically and physico-chem scally a goster of hyperfunction while the lower ing of diffusion in the enous plasma is character using of poster of hypofunction. On these grounds the function of the thyroid is conceived to be the break ing down of highly complex protein molecules and the grying off of protein derivatives int the blood stream. The occurrence and degree of the breaker, down process in dependent upon an energetic cata lytic agent which does not injure the gland. A specific accretion in a stronger sense is to be desied The overworking of this function leads to functional hypertrophy and ultimately to the formation of gotter

On the base of the working legislates required clinically and expensestably as produpoung are explained. The assumption of a specific expresses tour for an entire date of patiences are expected from the causes are among under ground produced the approach playshopping and pathological process which have as common characteristic long-continued microsic of fittings on the plasma.

Harman (A)

Reed, T and Clay II T A Surrey of Thyrold Inlargement Armeng the Children of Grand Rapids J Hickores State II Sec. 19 1 701, 13

In a survey of the school children of Grand Rapsh, outlibring of a relatgrease of the tyroid gind was found in so per cent. Thirty t per cent of those affected were boys and of per cent or got The examination consisted of inspection the spirit polyation of the throad per cent or per spirit of the throad per cent of the per spirit of the cent of the per spirit of the cent of the cent of the cent of the per spirit of the cent of the cent of the distinct demonst were graded or cent of the cent of cent

The frequency of this road enlargement was rather high among high school children, ranging from 30 t to per cent in different schools. The land one half as since. In two features the beart weighed 500 grand 500 gm respectively. Both I these heart were in large females, one with exopitations golter as the other with me some terminal fibrinous perscarditis. In the other cases the hypertrophy equalled a 5 t to per cut ucrease in weight. In two of the hypertrophical learns floweds was present.

Eleven of the sinteen patients with hypertrophy of the heart were prist 45 years of age. One was 5, one 35, and one 38 years old. Ten of the sixteen hypertrophed hearts showed distinct dilatation as

ell as hypertrophy

No note appears in the topsy findings concerning dilatation or hypertrophy. If the heart in the other five cases except that in one the heart weighed so gm and was firm and beely in texture. As is want in exophitalismic softer the hearts it topsy

ers mostly pale, soft and somewhat dilated

Histologically the myocardium in eightere cases aboved apparently swollen fibers with indistinct stratums and well marked tipped changes. However, only five of the patients whose hearing energy and the strategy of the patients whose hearing energy and the strategy of the patients of the patients of the patients are patients as the patient patients are patients and patients are patients and patients are patients and patients are patients and the patients are patients and patients are patients are patients and patients are patients are patients and patients are patients and patients are patients are patients and patients are patients and patients are patients are patients and patients are patients and patients are patients and patients are patients are patients and patients are patients ar

10s impression of these hearts guined by the pubbologist from both gross and microscope examisation is that of weak rather than strong muscles, although it ppears from this series f cases that large proportion of them show muscula hyper trophy. W. M. Boomes. M.D.

Anstm, R. C. Surgical Indications in Golter Ohio State M J 9 3, xx, 557

Hatologically the three variations from the normal thyroid are () in increase in initia shi cola colloid, (i) the der-dopment of new di cola, and (3) hipper tophy of the shi colar epithelium. These variations from the basis of the three main types f go ter (i) the colloid gotter () the decomations gottes and (j) the explicit and (j) the explic

are variations or combinations

The colloid type of grater is seen most often in one between the ages I and System There is primerized enlargement of both lobes and the allimes, and the gland is soft I demonth Opera too is arranded only by pressure is upto one of the other type until the other types in the oth

The colloid gatter is an expression of defluency in the amount of sodine visibile to the thyroid Marine has shown that the diministration of colline for the prevents or even curse colloid gotter and he and Amball behave that gim of sodium sodies given in it duly does twice year are sufficient.

The adenomatous type of gotter is most common inte third and fourth decades of life Examination reveals angle or multiple firm masses. The symptoms due to non-tone adenomata are purely mechanical. Toxic adenomata cause, in didution, moreous participation, tremor weight loss, early failing hypotapitation, tremor weight loss, say failing hypotapitation, tremor weight loss, and increased appearance of the property of the same of the same

Mummer observed that the denomatous type of gotter ppears I the a erage age of years and comes for treatment numerous pears and five months later after the symptoms have been noted for two ears and five months. The t eatment as surpical of the adenoma is 3 cm or more a diameter. Lega

tions are of no benefit

Frophthalmic gotter may occur at any age, but is most common in the third and fourth decades. The course of the sympt may a somewhat acute, reaching a maximum seventy r crusts at an average period of nine to twelve months from the time of their onset.

In the order f their onset the symptoms are nervousness, assonotor disturbances, tremo increased appetite, tachycardia, loss of strengthcardiac manificancy exophthalmos, loss of weight, distributes, womiting, and mentid depression

Lammaton reveals firm symmetrical calarge ment and, in 80 to 90 per cent of the cases, bruits over the thyroid vessels. The onset 1 hyperthy roads in a couplibilistic potent is rapid and rather colors. No cross symmetric constitution of the former and carteforms in the latter type. In toru denoma there may be stare but emphylations as abent

The best results in cases of exophthalmic golter are obtained from early operation, but surgical treatment should not be given just before, during, or

mmediately after crisis

I middly or moderately tone cases in a blick the erage metaboli rate in about so per cent, partial thyroidectomy may be performed. If the patient is my retail tone, perliminary ligation followed by secondary ligation should be done. After about three mouths after the control three mouths are the control three mouths.

While the majority of thyrodectomitted patients have an enerveithid or valscence, there is occasionally postoperature reaction characterized by mee in the temperature from 13 to 5 degrees. F and an extremely rapid pulse. In such cases the temperature is controlled by the application of we bugs, and sufficient morphine is given to keep the bugs, and sufficient morphine is given to keep the properties of the controlled by the application of the properties of the controlled by the application of the properties of the controlled by the properties of the properties of

Malignancy is seldom diagnosed pre operatively and usually develops in pre-existing adenoma Surgery is indicated in the early stages, and \(\lambda\)-ray and radium treatment in the later stages The causes of surgical failure or incomplete re

sults are (1) errors in the diagnosis (') faulty judgment in the choice of the time for opera tion, (3) the permitence of cardiovascular renal symptoms resulting from delay of operation, (4) the recurrence of symptoms due t noumplete operations and (5) myzordema resulting from the removal of too much of the thyroid gland

The numerous ad antages of basal metabolic readings are enumerated.

CLAYTON F ANDREW M.D.

Breitner B. The Indications for the Surgical Treatment and Prophylaris of Golter (Inches tiourn fuer die charargische Behandlung und Prophylaze des Kroples) Il na blis Il'charche o L TITLE.

The mechanical indication for operation is seldom the size of the gotter but usually its relation to the traches (hence the importance of transillumination in two planes) and sometimes its relation to the ersophagus. Compression of the trackes, even ben interference with respiration is alight, is in itself an indication for surpical intervention, especially is young persons, in whom tracheomals is often folloss compression. According to Blauel and Reach chrome stenoms. I the traches leads also t colloid golter and for this additional remain operation is necessary Operation for councile reasons is refused by many In 60 per cent of cases the author has been able to find mechanical indication for operation on \ ray examination even her the patient did not complain of any symptoms whatever

In cases of thyroid hyperfunction the choice of procedure is ery difficult. This is evident from the variety of operations proposed. Another lizated one or all of the thyroid rierses, hile Sudeck, maevere cases, removed the gland entirely. Between these two extremes he various operations, thymectomy and roentgen-ray therapy. A functional test of the thyroid a essential f the correct interpretation of

the indications in hyperthyroidism The interpretation of microscops, findings must he made on the brun of secreting formation and absorption in some cases of normal secretion by per thyrodem may result from increased absorption If Basedow disease develors in case of gorter as the result of removal from gostrous region disease or paychic trauma, the accretion of colloid can be arrested by resection. If persisting thymns is amonated the eater causing compression and the clinical pacture is t exclusively or preponderatingly characterized by evidences of hyporthyroidson, resection of the gotter will relieve the compression but thymectomy ill purhaps have the most marked effect woon the condition. In cases of Basedow disease ith small erv escular gotter not exuming compression surgery is contra indicated. The arrest of colloud secretion buch, ecording to Blanel and Reach, may be brought about by dummabed on gen

consumption, cannot be used in the treatment of Basedow' disease. On the other hand, rendence in an endemic gotter region is beneficial to persons of Basedow' discuss. The extractive agent of endease roster seems to have favorable informer upon hyperfunction of the gland Endemic gotter is band

upon hypofunction of the sland Although the etiology of gotter is not entirely understood, the infraence of some most he cook tion has long been known. Sometimes hyperthy redwas a induced by the dislicustration of soline. The author has been able to demonstrate experimentally that collord is stored monunicte secretion of the gland which may be brought to the finished state by oses of lodine. The administration of small ownshties of Jodine in sociom chloride as recommended by Wagner Jaurege has proved very good prophylactic measure. Insurious effects from such stud. quantities have pever been observed. By the treatment the accumulated colloid a removed and the gotter decreased in size. Since young persons utilize more thyrusd secretion than older persons. the administration of sodine is not apt to produce hyperthyroidem in the former This fact also lodcates that enderace souter as caused by interference with the absorption of secretion. The administration of small quantities of sodine as prophylactic measure is of alos only in cases of hyposecretica

Pembertan, J del The End-Results of Surjety of the Thyrold And Serg 423 19, 37

Salara (E)

The mortality of surgery of the thyroid gland compares favorably the that of any major surgery At the Mayo Chine during the year ore there ere .083 operations on .407 patients with goars ith a mortality by operation of .93 per cest and

mortality by case of a per cent The diseases of the thyrold gland hich are smen able to surgery may be grouped under six headings () diffuse colloid thyroid, (s) adenoma ithout hyperthyroidsen (a) adenous with hyperthyroidsen, (4) exophthalms: morter (5) thyroaditis, and (6) mehenancy

Diffuse colloid goiter is physiological enlarge ment of the thy road gland occurring in deleterace, caused by sodine insufficiency and cured by the ad ministration of odine or thyroxin. Unless colloid goster is amounted with adenouse or causes present symptoms because of its size surgery is not inch cated

Adenoma athout hyperthyroidism should be treated surgically partly for cornetic resons and the relief of presente symptoms, and partly because m certain percentage of the cases hyperthyresism develops subsequently. The operative risk is less than | 5 per cent and operation practically als) results in care

patient ith admona of the thyroid gland develops hyperthyroidson the omet is mostly so machous that surgery is not sought until marked visceral dogeneration has taken place, which tacreases the operative risk and diminishes the chance for complete cure. The operative mortality in this moun a between a and a per cent. Sureary results in core in about 83 per cent and in marked im provement in another s per cent

Exechthalmic golter is a constit tional disease due apparently to an excessive (probably abnormal) secretion of the thyroid gland. While is cause is rakaown, treatment aims to diminish the activ ty of the thyroid eland. Because of the increase in our knowledge of the disease and of the dangers meadent to surgery and became of the fact that persons with

emphthalmic gotter are coming to operation earlier before the development of accral changes, the surpost mortality has been reduced to 1 00% per cent is terms of operation and 74 per cent in terms of

The natural fluctuating course of the disease makes it difficult t evaluate any form of treatment unless sufficient time has elapsed to preclude the probability of recurrence. For this reason the author selected for his study patients operated on in o 6 Of 48 patients with exophthalmic goater t whom ques homane was sent, a reply was received from \$40 (72 per cent) Amety per cent were living 10 per cent committeed themselves cured or greatly im proved by the operation, 8 per cent were improved but showed evidence of hyperthyroidism or is effect, and 3 per cent were not benefited I ana hang the data lack of improvement could be traced definitely t three causes () incompleteness of the operation () the long duration of hyperthy rochem before the operation d (a) fashure t

elemente foci of infection after the operation Thyrosditha is rare Surgery is indicated o l

the tuberculous and suppurate types Malignancy occurs as sarcoma, carcinoma malig

next admone, and malament pepulloms in the ratio of one mahamant case in fifty seven benign cases. The prospect i cure by operation ad intempre radium and roenigen my treatment varies a th the type of mahanency Josef Prosperato VID

M vo. C. H and Pemberton, J de J : Surgery of the Thyrold and Ita Mortality Ara Serr o t lervm 46

During the last sixteen months, up to May 1 10 3 2 524 operations were performed to the M yo Chinic on 1 949 patients with gotter. Twenty five of the patients thed, a mortal ty by operation of o no per cent, and by case of a shiper cent

There were 1,308 operations on 853 patients with exophthalmic gotter. Thirteen of these patients died, a mortality by operation of o or per cent, and by case of a 5 per cent. Two bundred and seventy w. en Datients with adenomatous souter with byper thyroschem a coverated on more died, a mortality of a siner cent. Only three (o so ner cent) of \$10 patients died following thyroidectomy for gotter

thout hyperthyroidism

The operation risk in cases of goiter thout hyper thyroidum cannot be compared a th that of motor with hyperthy roudsom in the former the dangers are onfined t the operative and postoperative accidents in the latter the erestest danger has in the disease tself

The reduction of the mortality to per cent in the surgery f exophthalmic gotter is attributable t three factors () Patients a th exophthalmic gotter are coming to operation earlier in the comme of the disease, before the development of viscent degenerative changes () By combined medical and surport management, the development of post cute hyperthyroidsm has been reduced operativ t the minimum (3) A clearer recognition of the dangers involved in injury of the recurrent laryingeal nerv has led t greater care to avoid such injury

The combined medical and surgical management of persons a th exophthalmic gotter is warranted from the economic standpoint as t has reduced the

necessity for brations

As preliminary measures are ineffectual in adenomatous goster with hyperthyroldism the mortal: ty rate is dependent upon the number if poor risks accepted for operation A J School, M.D.

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS; CRANIAL

Torrigani Barent's Sign of Devision in Case of Lecton of the Frontil Region, and the in-Sussocial Sign is stated as a Sign of the Frontil Region of Partial Region of the Frontil Region poor Fronciad Vasilitata Ny sagrams (II segmodella devisione—farrary—in an caso de lecuse della devisione—farrary—in an caso de lecuse della repose frontial tadecase dello strando della repose frontial sel sastagno ventibolara processio (Spranerioles, go Intrav., ad)

In a patient on whom cramectoraly had been done because of an injury of the frontal report the author was this to provide intense exhibitan ray tagmus on the right or left not by electrical stimula ton behind the sar. It observed further that when the cramectory owned in the frontal tripose was cooled by cruptress et a with ethal, chloride the printing must be contained by the printing or a completely arrested. The exact region cooled was the cartiel part of the second

frontal co obtain.

In the author's opinion this chineal finding is of againstance with regard to the centers of the frontal lobe and the routes straining these centers and the

Locks, C E J Hydrocephalus (L hydrocephalic)

Brundler with c t. in 476

W A BRIDAN

ocular motor aucles

The author hardy reviews the theories at the cause of hydrocyhalus. Even share fillion's report to Moo of three cases of obstruction of the quodret to Moo of three cases of obstruction of the quodret that there are two types of hydrocyhalus—the obstructive and the shopather. Since the work of Dandy and Weed the shopather. Since the work of Dandy and Weed weather or the enhancement of parts as the cases of all types of hydrocyhalus with perhaps coss sureption.

types of hydrocephatics with perhaps one sucception.

The the describes the naturary of the wentrcular and subarschood spaces with regard or tocanals through which the cred-toopnast final orculates. The vontroular spaces are joined to the solianchood space by the foramina of Magenthe and Lunchia. The ventroular system, lined by open dyna, in composed of four eventre, the two latest ventricles joined by the foramina Mogree and the third ventricle which is passed to the fourth by the following the space of the second of the second of the second.

queduct of Sylvins

The dramage of the subarachimid space occurs
into the apongy imme between the arachimid and
pas and the perivascular spaces around the cerebral

The author describes the origin of the oreshospanel fluid in the chronol pleans and its circulation from the lateral ventrade to the third and fourth ventrales through the foramna of Lenchka and Magnadic, out not the substantional space and hence to absorption probably in large part by the villouties of the arschnold and to a sight extent by the lymph spaces

Any obstruction in the course of the cerebrospinal find will lead to hydrocaphalus. Thromboss of the atraught same or the vein of Galen may produce the condutors.

Obstruction due to tumor or inflammation of the foramen of Monroe causes understed distance of the ventricle resulting in understed enlargement of the head. Lumbur puncture does not eracusts such finds and routigen ray examination following the majection of our into the distended ventricle always that only the one ventricle continues are.

Obstruction of the sepadact of Sytrus as the cause of at least op per cost of the case of unfastile indrocephine. This may be due to concernat and formation with absence or blockage of the due to timper a central from intra strene selector reberculose, or gumma, it results in very large hard with side cranial sature. Lambur punches with side cranial sature. Lambur punches processes and the control of selector control of the charges.

Obstruction of the feorth ventrols is usually caused by a tumor (tabermolen, or gramma. In chalden, typical laydrocyphalus sealls, while in adults there are ages of greatly increased intricrimal pressure. Ventricallography above are in hierard and that destrained and the dulated expedient of Sylvans but no are in the fourth ventrick, the external, or the substractional questions of the contractions, or the contractions, or the contractions, or the contractions, or the contractions of the contractions of the substraction of parts own the contraction.

casterns, or the subsrictional space over the cruz-Obstruction of the formation of Lauchka and Lie gendre a rare. Luminar puncture does not samply the ventrocles. Ventroulography shows are in the dilated lateral wentrocks, the thard ventrock the spadent of Svivus, and the learnt ventrock, but seem in the posterior cristerias or the cerebral convention, but the control of the showpoint of carebrogrami ford. Obstruction to the showpoint of carebrogrami ford.

may follow inflammation of the erichicid.

Literial hydraceplaths, which is very rare, is probably caused by the rupture of as obstructively distributed in the subdistral space.

Pencture of the corpor ciliestra with drainage of the votational through the into the richaml space has not been successful, even when fatter were formed by seens of all thread. The openage always closed on a short time. Attrospts have been made to create fattsh between the subsendance space and the performent, to remove parts all accord plears or to construct a More remove a colored plears or to construct a More remove as the accordance of the appointer to all the richards as the subsendance of the appoint of the appoint of the appoint of the appoint of the accordance of the appoint of the accordance of the accordan

Dandy W.E. The Space-Compensating Function of the Cerebrospinal Fluid—Its Connection ith Carebral Lesions in Epilepsy Bull Johns H bhas Hary Balt o 3, xxx 245.

According to the most generally accepted view the function of the cerebrospinal fluid is to protect the brain and granal cord from shock. Since the find is incompressible, this protection must be af

forded by its ready displacement

Mechanically lesions of the central nervous system are mace-occupy ing or destructive in character In the former space is blained through reduction to the amount of blood circulating in the cerebral vends, the destruction of brain terms or the forcing of the find from the cerebrosminal fined souces of the bram Subcortical tumors characteristically prodate a pronounced local animus of the brain a bstance directly above them and pallor of the adjoin ing cerebral substance which become less as the datases from the tumor increases. Tumors destroy terebral substance and, by producing by drocepha he, came additional destruction due to the dilation of the ventracles A greater amount of room for the endopment of the tumor is perhaps obtained by obtieration of the cerebrospinal spaces. There is bcorucal absence of cerebrospinal find over terror and consequently obliteration of the sub aracknowd spaces. Tumors of the posterior forms obliterate the cerebellar subarachnoid spaces and raduce the size of the cisterna magna. These facts may be shown graphically by cerebral pocumog-

la cases of destructive lesions the cerebral cavibes are called upon to make up a very large share of the loss of space. As an intracerebral vacuum a measurable, the entricles and subarachnoid spaces must make up this destruction. A further

contributing factor in filling cerebral defects is cerebral fibroms or glions In epilepsy it is usually possible to demonstrate the presence of a cerebral lemon or a change indicat ing a lemon. The changes most commonly found are. (r) dilatation of the ventricles, () abnormal shape of the ventricles, (3) dilatation f the ubanachroad spaces, (4) cerebral atrophy (5) areas 1 those, (6) changes in the memnages, and (7) congental malformations Accumulations of fluid com pletely covering areas of the brain and rendering the anderlying cortex and its vessels investile indicate to Dandy that there has been loss of cerebral substance equal at least to the quantity of the find la addition, the brain beneath the find is softer than the contiguous normal cortex While these accumusations of find over the brain surface in epileptics have been recognized for some time, they have been regarded as the result rather than the cause of the converges. However, it is to be noted that many of the most severe cases of epilepsy of the congenital type do not show them. From these evidences of creheal lessons the author concludes that a large Percentage of the so-called idiopathic epslepines have a pathological basis LOTAL E DAVIL M D

Kolinhakin, S. L.: The Treatment of Cortical Epi leney by Injecting Alcohol into the Motor Centers (Die Bebandlung der corticalen Epilepse mit Alkoholmiektsonen in die motorischen Zentres) Arch f Hi Chir o t Can

The procedure discussed was developed by Razumonaly The author believes that in cases of nontranmatic epilepsy of the Jadasson type it should he substituted for the removal of the specificalic centers (Horsley von Bergmann) A flap of akin. muscle, and bone is formed according to the method of Wagner and the dura is opened by two incusions narallel th the base of the flan. This procedure has the advantage that it renders dural sutures unnecessary. The centers are found with the aid of a unipolar electrode placed over the injection cannula. and are injected with from a to 3 c cm of absolute alcohol

Of three cases treated in this manner all were benefited, but in one case a repetition of the injection was necessary after sixteen day The patients were re examined after sixteen days, seventeen days, and two months, but these periods are undoubtedly much too short for correct evaluation of the method Paralysis has not occurred

Smith, P. R. and Smith, L. P. The Function of Replacement Therapy with Different Portions of the Ox Gland Endocrately 9 3, va. 579

In experiments on tadpoles the utbors found that early hypophysectomy produced (1) a slower growth rat , () failure of the larva to metamor phose. (3) albinism, and (4) large and persistent fat organ which they believe indicated a disturbance of metabolum

By feeding extracts of the hypophysis of the or, they were ble to control general body growth, the

behavior of the paymentary system, and the capacity of the fat organ Latracts of the pars anterior of the hypophysis produced all of these results, while those of the pars intermedia and pars neuralis corrected only the pigmentary and metabolic disturbances These experiments are f interest since they tend

to contradict recent claims that growth retardation induced by experimental hypophysectomy in the mammal is due to iscidental injuries to the hypothalamus rather than to loss of anterior lobe substance LOTAL E. D. VIR. M. D.

Just, T. H. Brain Abscess Due to Otatic Infection; Right Temporosphenoidal Abecess Without Clinical Signs, Pres Rey Sec Med Lond 023, I'v Sect Otol 54

The first case reported was that of a woman aged 27 years who had had otorrhors and desiness of the night car since childhood. A few days before her admission to the hospital, headache which increased m seventy and daily vomiting began. Examination revealed moderate rigidity of the neck, tempera-ture of our degrees F and a pulse of so The right tympanic membrane was obscured by granulations, a purulent discharge, and epithehal débels. There was no amnesis

A indical masted operation shored the masted it be estillate and he roof of the natural carnots inmediately here the tengent was a strandoral shores. The down matter bears and temporal shores are down matter bears and the temporal shores. The down matter bears and the presidence of the strandoral lobe was covered with practical to be turn absents. This was opened, weathed with allow solution through No octalities the Custing and the short of t

pus drainage had ensued. The patient recovered in a second case of temporosphendidal shaces containing 156 oz. of offensive pos, the granulating dura over the abaces. as removed and the abaces was washed and sucked out with a ytings for ies minutes. The draining take was loosened on the second day and removed on the third day. Re-

covery was progressive and uneventful

Jenkins prefers free excision of the abscess s. Il
and drainage by rubber tissue became a small hole

and tube drain may become blocked

Ballance states that a brain baces is difficult to dram and that sushing it out may be dangerous. The dramage thus should be may be dangerous abaces is opened and then left in place because it abaces is opened and then left in place because its accurate replacement is difficult. Bullance always drains unless the because has been completely modeleted. We rise CHECKET MD.

Gabriel Encephalography (Ueber I acrobalographie)

Nativile & Gd & Ricalographics a 1, 332, 55

The Bungl method of introducing arr by y
t be dural sex will demonstrate not only the
restricte, but also the surfaces and the individual
protection of the forum. The Duvid method flags
the ventrodes directly should be sard only when the
Bungle procedure is sunficient. The whore employs more for the unsuffiction. Changas in the
pulse and stated, of sections and pairs during
the filting are of no importance. As a role there is
a men in the immogration on the first day is
cephalography has never caused death in the
Tostan On.

Spiller W O The Diagnosas of Brain Tumor Attante II J 923 Pers, 7 5

Dandy W. E. The Disgnosis and Treatment of Brein Tumore Assau M. J. pay, 2571, 726

Most defined in the complex problem of the diagnosis of brain timous as the localisation. In addition to the important neurological summation, ventine-logically in now seed for this purpose. Overail again of increased intra-trainal tension law, streetly continuous and approximation of contral purposes of the purpose of

of diagnostic and. Venincuingraphy is associated. It is serous not and about the need only by a competent secretiques of the property of the services property of the competent property of the competen

In competent hands, and when correctly intreperted, entirculography may be of decided as a localizing lessors lack can be treated thoroughly and directly by operation. T mose the team and thus to ttack the lesson directly and to do fewer pullatine decompression operations should be the soul of the future. Local E. Do in V.D.

Werthermer P. Anatomio Clinical Considerations on Intracracial and Trustmetic Subtreal Historicalism in the Adult Considerance anatomo-clusques are les bisnortages and devices referencesses at the trustaliges de Lefalt). He de cite Ter. o. 1, 30–50.

In Rethemer opunes, subtard henorities in frequently follow infrancials impures and other at the case of death. Such hemorities are mitigated may be a mercoganed as they clearly form are not very clear. Fracture of the shell as not accessary for their development, and there are so favored by any particular type of fractire. While sheepshow may take place there can be so seasoned of it, and therefore as the exploration and received may exclude the contract of the contract of

Lumber peacture does not als) recel beautic fluid, but usually hypertension and symptoms of contract irritations or cerebral deficiency are noted. These may be manifested by epicpulsons cross of the sucknown type phasis, or hemplegar

The fact that even slight lenous may care hemorrhage does not seem to be well represented According t Henschen, even in of coughing since responsible. I there is the care collected by Henschen, no crunual or cerebral lenou was found

Except in cases of open fracture the danger of micrion of an intracranul bumatoma is slight

Treatment should be given early Lumber punc ture may be employed in both the diagnosis and the treatment, but in the latter is not sufficient even if repeated. Trephysation is necessary at least as far as exploration, and is indicated by the least symp-toms of intracranial compression. The site depends. on the signs of localization. In the presence of signs of compression and the absence of extradural ham entage, the dam mater bould be incised as the peractence of an unrecognized harmatoma is danger on When trephination has been deferred to the period at which a harmatoma has been definitely formed, exacuation of the harmatoma is sufficient Il ngus of compression develop I ter lumbar punc ture all be beneficial and is t be preferred t eramage which might be a source of secondary infection as ell as f irritation favoring recurrence

of the hemorrhage Early operation is the best means of previting the complications of subdural harmstome and lower me the mortality. Trephination is the best treatment. to prevent secondary epilepsy TI A BREENA

Doyle, J. B. Glomopharyngesl Neuralgla Clas V im 9 3 vm #5

Seven cases of glossopharyngeal neuralgra seen

at the Mayo Chaic are reported Is one case that of a man 63 years of age, complant was asade of pain in the threat and the right tar The patient stated that five years previously after taking drink of cold water he experienced wharp perceptual pain in the region of the right cur and excessive tenderness of the auricle. These tenares recurred until 19 8, when his touchs were removed. He was then completely reheved for about three years, but thereafter had mild paroxy sms for ax axesthe. The pain recurred in February 192 and at the time f examination he was having great disculty in obtaining sufficient nourishment became of the pam induced by drinking and mastics. ties. The pain was percurrental, short, and agonising, it arose in the right fancial region, radiated aterally to the area anterior and posterior to the nght car and leated from thirty t namety seconds Physical and neurologic examinations were essentally segative except that a trigger area was distwented in the right hypopharyngeal region. On March 23. 0 3 the sensory root of the right Descrise ganglion was cut. The motor root was preserved On April 1 the pain recurred On April

I the glosopharyngeal nerve was avulsed from the Applar foramen and the pharyngeal branch of the rages as cut. For the past ten months there has Peca no secritories

Another cese was that of a man aged 52 years, the complained of a dull throbbing pain in the tepon enterior to the right external auditory meature which as associated a the paroxysens of short, Stages pam in the right aide I the throat and the nght ear and had been present for t weeks I

jection of the mandibular division of the fifth nerve and the auriculotemporal nerve ga e no relief.

The fiv other patients presented the same syndrome of parony amal pain initiated by talking, then ing, coughing, and specifing and especially by cold a ter touching the pharynged wall. To in this group were operated on I one case, the operation was stopped before the ninth pers was exposed in the other complete symptomatic relief was obtained I llowing avulson of the ninth nerve and section of the pharyngeal branch of the vagus

The distribution of pain in the first two cases was considered atyracal, but the paroxysms were exactly hie those of traincal neuralgra. Following the reurrence f pain after section of the sensory root of the gusterian go gloon in the first case, and after the fulure f alcohol injections in the second. t became apparent that in spite of the resemblance to tofact I neuralize, some nerve other than the trireminal was in olved

Glossophuryngeni neuralm as definite clinical ent ty different from trifacual neutraless only in the ren f distribution of the pain J B Doniz, M D

nurson, F. J. A Case of Acusticus Turnor (Right) Operation by Sir Victor Horsley in Clemumon, F J

1912 Remoral of Tumor; Recovery Proc. Rey See Val Lond 0 3 vvi, Sect Otol 21 Walshe, F M R.: A Specimen of Brain and Acus-

ticu Tumor Free Lry See Med Load 19 3 vs, Sect Otel 3 tter W The Surgical Treatment of Eighth Trotter B Nerve Tumors. Free Rey Sec Med Lond Q 1 EVL Sect Otol 17

This brief symposium upon the diagnosts and surmual treatment of tumors of the eighth nerve followed the presentation f a patient who had been operated upon in 101 by Sir victor Horsley for an acusticus tumor. The residue of symptoms in this case consusted of complete desipers in the right ear sensory disturbances over the area of the right fifth nerve, right facual parests, and a shight defect of coorthogtee in the right hand

Symptoms referable t the eighth cranial perve.

of course, usher in the chinical pacture of such tumora. These vmptoms are vertigo and progressive deaf ness with or without tinnitus. Attention is called t the importance of the experimental work of Magnus and de Kie j in differentiating between carebellar and labymathine defect symptoms. The evidence indicates that ataria, nystagmus, and muscular atoms are of cerebellar origin. The posture of the head so common in cerebellar lessons is probably manufestation of a unilateral labyrinthine defect Loss of muscle tone is due to the rotation of the head, which sets up what Magnus terms a "tonic neck reflex This reflex in turn produces diminution of tone in the extensor muscles I the limbs of the side of the lesson

A progressive paralysis of function in the cranial nerves discent t the acoustic nerve and in the cerebellum causes the symptoms which next mak their appearance The fifth, seventh, sixth, minth, of the ulmar Thereby the lifst logical umon of both nerves was proved boyond doubt

Double union as to be praferred to stroke union be the latter is often only partially socressful in double union the paralyzed never obtains new strength from two sources () from the central stump belonging to it, and () from the path of the bridging near I angle ion t receives t from the latter only

Bankart A S. B. Openshaw T H. Reddoch G., Little, E. M. and Others Describber on the Operative Treatment of Sparil Paralysis. Proc. Rev. Soc. Mod. Load. 9 J. Sect. Orthop.

Since sprette piralysa is usually due t permanent jury—the upper motor neurone the benefit t be derived from operative treatment is limited. Extreme mental deficiency—theroas, and progressive disease are contra indications to survey).

The muscle contractures may be physiological or I long persistent structural. Our surgery can await in either case I take former we han, the choice of tacking either the afferent sole of the reflex are by the Foester operation or the effects set butting the more nerve supply; it he muscle. The Foester method has been abandomed by most orthopoedic surpross because of the great distortion localizing the affects imposed sortion of positions of the prest distortion localizing the affects imposed particult spanisher.

roots By the Stoffel method of attacking the direct nerse supply t the strucke, lack his more definite any muscle or part of a muscle can he put out of function. A sufficient amount of the nerve bundle is cut to destroy the spatistry but enough as left for physiological requirements. With retherments of technique and definite howiselys of the physiol

ogy of the nerve trunks, which in fairly constant for any given cross section, the rescrive of the required amount of the bendle is not difficult. Stoff-operation absolutes the prolonged after treatment and the use of basics. The speakerly is permanently releved and aff the child needs is encouragement and instance in a salting.

In discussing Hinhart article Opensian such that the half always operated on speatic cases by driston of structes and tendons. If had done Forester's operation to two cases but found it extractly difficult and its results uncertain Munchain turied the spassan best left the patient without curred the spassan best left the patient without any open of the spassan best left the patient truth of the spassan truth and seeks them out by electrical the parent truth, and seeks them out by electrical

stimulation Regarding Stoffel operation I atthank as not so optimistic as Bankart. H. found that in old cracs tenotomy was renuired in addition, and that in m y cases splints were pecessary in the after treatment. H agreed ith E am as to the dasprointing results following Forrster's operation Rocj Jones also considered tenotom of the Achilles executal in dilution t the nerve resection. In the upper limbs he has had better results from tendon transplantations the from nerve operations. Binstow many the tem hits experience it as also versafe to divide both branches of the obturator ery for adduction spasm. If prefere t divide it bove the foramen by the extrapentoneal route. Fening neurologist, was another he testified t the disarmounting results following the Foerster operation. Limelso and A gitton Dunn both advocated reeducation of the muscles after the Stoffel operation WILLIAM A CLASS, M D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Glass, E. Additional Observations on the Discrise Picture of Bulsacius Mastitis with the Forma tion of Nodules in the Bressis (Wester Beolusch targen weber das Kraulhentshild der solukaten Mastitis mit knotenbilding in der Munima) Deutste seed 11 kauch q g ut 10.

To five cases previously reported the author did, elements others. The condition described occurs untiulty in young print. Ind young somen is the period, to be presented and print, and the period of the period to be period of the period of hardons, which resemble fibrors to the results of the period of the

The nan and sensul news to pressure are very changeable and show dishart relationship I mentionation, being greatest about mudwy between the periods. In one case in which microscopia examination was made the picture of chrome mait its prodiferation of connectivit issues of round cell indivitation was found in every case except in rigid rise or year affected by the wearing it regarded by was effected by the wearing it is not to be a supplemental of the product of the

Bunts, F E Tumors of the Breset Ob State W J 9 3, xxx, 16

Bunts presents and discusses the findings in detuied study of the records of 1 64 cases of dissales of the breast, among which ere y malignant tensors

The cases are divided int three groups vize beings tensor, malganant temors, and nuscellaneous conditions. The number of cases in each if these propaga error beings tumors, 6 (denolibrooms do 9 per com) malignant temors 7 (carranoms of 4 per cent) cysts, massitis et 38 (cysts and cybic malicus, 6 5 per cent massitus, 0 per cent)

The age incidence was as follow

	TITL GCDCC AT	S SE LOHOT	
Ago Yeaza	Bengu Per cent	Malignant Per cent	C) ets, mastitus, etc Per cent
Under so so-sy so-so so-so so-so so-so so-so so-so	\$ 5 7 26 3 24 4 4 7	7 9 3 5 3 87 6	7 4 29 4 4 8
Out to Out to	" المسسر	7 7 \$ 3	5 4

The comparate sty high modence of the benign conditions in the earlier years, i.e. under 30, and of the malignant conditions in the later years appear significant as an indication of the potential insignancy of benign conditions

Adenofibronia represents a more definitely precancerous condition than mastitis. In nanety three (3 4 per cent) of the cases of cancer a hastory of traums was given, in twel cases the breast has been musaged, and in thirty-nano there was a his tory of abscesses or caked breast. In 17 8 per cent there was hereditary hastory of cancer. The fact that 74 6 per cent of th total number of patients and 8 or 7 per cent of those with malignant

lumons were married is significant.

That function of breast is of some importance as causative factor is siggested by the fact that only per cent of the breast tumors in men were malignant as compared with 53 8 per cent of those

n women

The k igh of time bet een the discovery of the
tumor and the operation, of the innedence of
postoperative recurrences and metastases are sum
marized in tables. In \$5 per cent of the case the
condition as first manifested by lump and in
\$5 per cent by pain.

Of 4.4 cases of cancer recurrences have decloped in 50 per cent. The three-year surviis in the malignant group equilled 43 per cent the five very survivals 28 per cent and the ten year survivals, 3 per cent. The number of the upper contert ou drain of the breast was much smaller than that in cases in luch other areas of the breast were nowled.

TRACHEA, LUNGS AND PLEURA

Parodl F The Mechanism of Action of Artificial Pseumothorax on th Baske of Anatomo-Pathablogical Observations (Il meccanismo di aucos del premioronic artificule in bise alle osservazioni anatomo patiologiche) Palad Rome 9 3, EXT., ser prat 480

From a macroscopic and microscopic study of the lung in fatal case of tuberculous treated by artificial pneumothorax for a year Parodi draws the following conclusions

In the lung subjected t collapse the tubercu

lous infiltration retains its pathologic character.

Preumothorax per se does not cause recovery but side it by favoring the proliferation of connect.

ive times

3 It hinders but does not prevent the spread of
the discuss by the bronchial, harmatic, or hymphatic
routes

4 In the beginning and for some time it acts chiefly mechanically by diminishing the areas of absorption. W A RECTAR

Stewart, W. H. Pulmonary Abscuss Rosnigsnographically Considered. J Rad of 9 5-

While the climes pecture and physical examina-tion are usually sufficient for the disgnosts, the roentgen examination is especially valuable in locat ing the lesson and giving accurate information as to its extent and the presence or absence of amoriated nathologic conditions

The early process seen roentgenographically is a localized pneumonitis of arribe degree 1 be shadon is more often oval than circula I to center lighter area soon appears, indicating cavity formation. The roentgenographic picture depends upon the amount of secretion present. If the cavits is filled, it is impossible to distinguish between the infiltration and the find. If it is only partially filled a fluid level a the clear area above is seen The infiltration varies greath in character, usually the more acut the process the more dense the abadou. In cases of old becraves, well established pyogenic membranes are found and there is very little involvement of the lime surrounding the cavity. Before softening or gangreno occurs it is impossible to determine whether one is dealing with

one or several abacemen The lesson most commonly mustaken for lung abseem on V-ray examination is small sacculated emovema. Certain cases of sarcoms of the luan simulate the multiple form. I pulmonary abscus-The chrome form of lung supporation may lead to diagnosis of pulmonary tuberculous In the

letter however there is little, if any infiltration our rounding the cavities, and the position, laboratory findings, and manifestations of the disease elsewhere

the hunes will reveal its character

T demonstrate an abace-a roentgenographically the chert must be examined in all positions. The uthor has found the prope lateral position, a th the t be in front and the plate behind, most sumfac tory especially when the patient is unable to maintain the erect position. That cavities are more readily mapped out in this position is due no doubt t the fact that the becess is usually oval a th its loog diameter extending from the root toward the periphery Localisation by means of the roentren ray in position other than that in hich the patient at be placed on the operating table is unsutafac-

It is better to describe the relation between the abscess and bony landmarks than to attempt to mark t on the akin. The ideal method of local mng lung abscess is fluoroscopic examination made a th the dynatable head fluoroscope after the nations has been prepared and placed in positio ADDLESS HARRING VID on the operating table

GESOPHAGUS AND MEDIARTIRUM

Bircher E. Contributions on the Pathology of the Thymne Gland II The Servical Treatment of Thymic Arthma and the Importance of the Thymns in Surgical Infections (Bestraces our Pathologie der Thymandesens. II Zur charstynchen Rehanding des Asthma thymnum and the Be lentung der Thymus bei churarpachen Lalektionen) Destroy Links f Chr o 1 dans to

From the utopay records for the last three years of cases in which at two thy mice is mphaticon was factor the author found that, especially in four infectious discuses, the incidence of enlargement of the thymus was extremely high. This was true in 8s per cent of the fatal cases of tetantes (mx), in \$0 per cent of those of scut misction of the gall thedder (five) in 75 per cent of sixteen cases of diphthers. and in each cases of perforative opendicitie. That it was not a councidence is evident because of the well known susceptibility to infection of persons with the lymphatic habiton, in which, presumably internal secretory conditions are involved. Burcher pand purticular tiention t the occurrence of thymns enlargement in young persons with diphtheria and in diphtherm suspects and observed large number

of cases of pure tracheostenous thymics. In the past cacht years Burther has treated ten cases of pure thymic sterious in children. In most of these, chrome thymic asthma had been present for a long time and had auddenly become more severe The jugular tumor formation as distinctly evident climically sometimes on bending the head backward In all of the cases counterable portion of the thy mos was resected. I three low tracheotomy was performed first, but did not relieve the interference with resouration. Amo of the children were cared In four cases operated upon after the diagnosis of acute diphtherial stenosis (no diphtheria batilli ere found later) reacheotomy was unsuccessful, whereas resection of the thymns performed immediately thereafter cured the dyspaces T of the nationts

ware cared and two died In aix (nosebly seven) cases of tree dipletherse with associated thymic enlargement in which the thymns was resected at the time of the tracheotomy there ere to deaths. Therefore the mortality was only so per cent whereas ordinarily in diphthems

a the amounted status thymicus it is 75 per cent In paneteen I these twenty cases the this must make

showed histologically distinct medallary hyper trophy the Hamall corposcles ere enlarged but decreased in umber

Bucker daupproves of rosnigen ray therapy for persistent thymus as it is amonated with the danger of came g thymic ideocy with total consistes of development as was observed by him in one case three years after an irradiation. In another case rumtgen ray therapy caused an aggravation of the symptoms, necessarising operation Maxwest (I)

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Masson, J. C. Postoperative Ventral Hernia S. g.

Gyace & Chat. 9.3 xxxxxx, 4

During a period of four years 8,970 abdominal

During a period of four years 5,070 abdominal operations are performed it the M yo Clinic, 506 (o pper cent) of which were for the repair of post, operatin herma. Recurrent unbidical and recurrent ingunal hermae re not included. During the same period, 4,240 migunal, 217 femonda, 37 umbilical said its miscellaneous hermae were repaired. The postoperative hermae therefore constituted 4 66 per cent of the total number of operations for herma child-for erecurrent. The original operation had been performed at the M1 y. Chinx in 34 cases and dischere in 46

Postoperative hermas develop usually as result of sepas In many instances this is one odable when drainage must be instituted it the primary operation. The next most usual cause of post operative hermas is increased intra-abdominal present distributions of the primary properties of the primary properties of the primary properties of the properties of t

be slow in beating.

The treatment is divided into preventive measures, such as the proper preparation of the patient for abdominal operation, the proper type I ansettless, proper closure of the wound at h proper esture material, and postoperature care. The curricute treatment includes pre-operature measures such as reduction of othese patients, and the gradual relaxition of the herma which slowly brings the survey of the properation of the herma which slowly brings the survey of the properation of the herma which slowly brings the survey of the properation of the herma which slowly brings the survey of the properation of the herma which slowly brings the survey of the properation of the

Local ners blocking supplemented, i necessary by mirrous oxide ethylene or ether is the anaesthesia of choice

The namer of closing wounds depend on the proton of the biomen manuel. One hundred and sakty-size before the biomen in the state of the sakty-size betties of the sakty-size betties of the sakty-size betties of the sakty-size betties of the sakty size of the sakty

Anatomical closure is the operation of choice if t can be effected a thout undue tension otherwise plustic overlapping preferably vertical, based on the same principle as the Mayo operation for um inheal hernus, is distable. Undue termion must be voided. The enture material of choice is twenty day chromic cuteut N 7 2 Tension nutures of chromic catgut are best applied after th insertion f one row of a continuous mattress suture closing the pentoneal ca ty For cases in which the overlapping flaps consist mainly of scar teams the suture (Gallie ad LeMesurier) made of narrow strips of utogenous fasci lata is dvocated. These strips are sexed into the flaps in much the same manner as stocking is darned. The wound is then packed with rubber tassue and partial closure is made with dermal sutures. The rubber pack allows ample drainage f the serum blood and broken don fat After forty eight hours partial secondars closure is made

The results are very saturf ctory. Of the 506 pattents, eightly four of whom hads not least operation, 134 (48 per cent) have weak sounds: In more or less builquist and only life four (57 per cent) are complaining of slight incovenance. Teachly 35 per cent) did not improve There ere four deaths, mortality of 78 per cent.

GASTRO-INTESTINAL TRACT

R hfuss, M E Diagnosis of Gastric Diverse. 4 Cl Hed 9.3 N, 55

The secretory and motor functions if the stomach are intimately associated but not entirely dependent upon each other. The ingestion of food sets up a complicated sense of cycles, one secretory the other motor Psychic stimuli produced by emotion or through the special senses in the presence of food may ha a marked effect on durestion \arnoma more or less characteristic substances react in manner in the stomach, and the entire mest group cruses a distinctly higher acidity than egetables or cereals. Along the lesser curvature near the pylorus there are few acad cells. This area appears t ha e.e. lower resistance t the erosion of gustric pince than the rest of the stomach since it is here that most eastric ulcera develon

In its motor function the stomach is in reality its organs as the cardiac portion contracts three or four times as often as the antrum. There are to groups of persons, those the comparate of slowly emptying stomachs and those as the comparatively rapidly empty my stomachs. The substance which required the longest time for normal gastric direction in the cases studied by the author was in its, but in no In stance was there any retention after a period of six

Certain organic duesses of the stomach affect the mucous membrane lone, others affect the aphiecters and muncles, and few came general impairment, Systende conditions may after the functional output of the stomach either directly or refealy. In cases of gestric disorders the symptoms are usually associated with some definit phase in the gratife cycle, occur ring after the ingestion of food, during the active stage of digestion, or at the conclusion of digestion In extra gastric conditions the symptoms are possily more or less pregular

With modern technique and examination of the stomach in every plane the X ray will demonstrate not only the altestion of the les on, but also not in-

frequently its nature. Captric analyses has three objects, via

z. To measure the work of the mucous membrane Thus It accomplishes in terms of secretion 2 To measure the work of the musculature and

sphincter This it accomplishes in terms of gastric evacuation. 1. To demonstrate the presence of anything more

than the meal and secretion I ractional naivole is al as a preferable because cry erroncous conchalons may be drawn from tingle examination As a disease combition affects the mucous mem-

brane or the muscles and sphintters, it will affect also the nature and character of the gustne ork. A distinct alteration in the type of guitric secretion either a hyperacidity or a subvisitity means only one thing and that is an alteration in the mucosal func tion. The evacuation fant ald meal in from one hour and forty file minutes t it bours and that's minutes m y be considered pormal L acuation in ben than this time or requiring longer than three hours is abnormal and due to h) pomothty atony or organic disease at or near the polorus. These various disorders of secretion and motifity may be the remit of either lates or e tra gastine disease

Cross J Courses, M D

W tts. S. 11 Cardioplasty for Cardiospasts. Ass Swy 19 s, heren, 65 Processes, L. t An Operation for the Relief of Cardiospann. Amt Sarg o 3 hurbs. 24

Warrs believes that in cases of curdiomesis mer pary is justifiable only when the by drostate dilator cannot be passed through the cards. It the aid of a silk thread guide (austroatomy is only pallia tion measure Watta reviews the hierature and tive pacamere reports in detail a case in which he effected a cure by curdiopi sty

PRETERAN reports case of cardiospasm associated with dilatation and tortwonty of the orsophists in a man of so years. At operation, the upper segment of the dilated and rather loose croophages was invarianted into the lower segment ithout opening the homen and this intrasasception as fixed by few attitches of chromic gut Primary umon occurred EMIL C ROMITMEN, M D

Marray H. A., J : The Chemical Pathology of Pyloric Occlusion in Relation t Tetany Study of the Chloride Carbon Dioxide, and Ures Concentrations in the Blood, And Say 1617, Yu. 56

Gestric tetany is described as a form of nerve appenentiability associated with romains, dilate tion of the storatch, and pylone occlusion and das usually t a levice near the pylorus. The treatment is largely surgical. In this article the thor troorts the blood findings and clinical buttones of seven cases of obstruction it or near the pylorus and the reachs of experimental work on dogs

The condition was first described in 1869 by Koumand, who attributed it to descention of the time we In experimental work on does, MarCallum found that it could be produced after experimental conssion of the priorus by frequent washing of the stomach. Chemical changes found after pylone orchision have been compared by a number of usvestigators to those found after parathy resections I a study of the effect on the nerves of chapters in the ratio of sodium to calcium it was discovered that serve irratability is moressed by related from the in the concentration of the sodium and decreased by a relative increase in the calcium. M. cCallium reported that pylone occlusion as followed by a decided buttered in the electrical artisbility of the serves. In the prestigations made by the author and others it was found that hen tetany was produced by pylone obstruction the blood chemistry was markedly changed, showing rise of the car bon dioxide of the plasma, fall in the thornde content of the blood and plums, an socresse in the phosphorus and sulphur and a shight row in the hydrogen lon concentration. In pylone stenous the hydrochloric acid cannot pass into the intestmen and become resorbed. The it is expelled by court ing or removed by gastric la age disturbance in the acid-base balance in the blood and tusters re-

In cases of persest at omating one of the most important prestigations is the determination of the curbon-dounds content of the plasma. If the is greathy increased in the absence of afkali therapy-to over 80 per cent by volume-the presence of obstruction t or near the pylorus of If it continues to use, tetany can be inducated predicted

Castrac letany must be differentiated from the tetany of hypoparathyroschem, the tetany of hyper tears, ad the tetany following the administration of all alses or sodrum salts Haboto M Caver M D

Schindler & Gastroscopic Studies on the Healing of Gastric Ulcer (Gustrankspacke Usternschungen arber die Heckung des Ulcus rotundum ventreum) Margeles med Bekasels 9 3, bt1, 471

Ulcers at the pylorus usually escape gustroscoped diagnosa on account of their location, while those he the fundes are easily seen. The healing of ulcers can be studied exactly only the the gustroscope, as rountgen findings, such as the desprearance of nucles, are not conclusive.

The author reports three cases in which he studied the process of bealing gastronogically. In one case of ulex on the lesser curvature, which he reports in particular drival, the lesson had become smaller and shallower at the end of treelve d ya and was then bounded by normal mouses, surrounded by a deep red, injectice, circular zone. After thirty one days it was the smot of a pea, the mytosa of the circular street and the process of the circular street and the process of the circular street and the street and

The Leube treatment and, as medication a mix ture of barnom sulphate extract of belladonna, and papevena are recommended Timer. (Z)

Charrier Three Cases of Perforation of the Stomach by Ulcer (Tree cas de perforates de l'estomac per alche) Bull d'mém Sec de chr de Par 9 3 mix,

Fernari Two Cases of Perforation of th Duodentum by Ulcar (Deax cts de perforation d'alcles du deodémin) Ball, et mêm Sac. de chir de Per 973, hits, 494.

In two of the three cases f ulcerous perforation of the atomath reported by Charper only studie of the perforation as done both patients recovered in the third case the perforation, which was pre pyfore, was surrounded by thick sone of industion and the pyfores appeared greatly constructed A pastro externosions was therefore done in addition to the autisming of the perforation. The patient diad the second day after the operation

Gastro-enterestomy was done in addition to saturing of the perforation also in one of Ferrari's cases in which the ulcer was intuated in the strictured pylonic canal. The patient died fifteen bourn

after the operation

Brithot, in discussing these reports, cilled attention to the fact that both of these surpross, who are expensenced, avoided a partial guarrectory. In the to case in which gastro-enterosomy was dose, it was necessitated by the stricture of the priores affected between that in cases of perforated uker minimal surpreal intervention should be the rule and that this should consist of engoine followed by stone and bound of the edges of the perforation by monetoplastry or, in cases without extensive individually after the content of the production of the moderated area and gastrometricity. Partial guarrectory is indicated orderstroughly when more conservative treatment is myomable. We A Biggers of

Delfour D C. The Use of the Cautary in Peptic Ulcar Aux Serg 9 3 lxxvm sec

The author bases his discussion of the use of the enticy in peptic ulter on 7 5 cases in which the curtery was employed in the M 1 yo Clinic Gastric when may be arbitrarily divided into three groups () those in which the crafter is 1 cm or less in dis-

meter (2) those between 1 and cm and (3) those over 2 cm. A large percentage of the ulcers now seen are small, and 50 per cent of them involve the leaser curvature. Since the cantery is particularly suitable for such cause it has a wide applicability.

The method originally described for the use of the cautery in the treatment of these small ulcers is followed, but the importance of theorogic excision of the lesson by the cautery is emphasized, as unquestionably certain failures to cure were the timecuracy in this respect. Such excession is combined.

of course, a th gastro-enterestomy

Ulcers with medium-sized craters should be exposed by an opening made with the cautery at the edge of the induration and, with the crater of the ulter in view to wide excusion made with the cautery If such ulcers are t the pylorus, partial gastrectomy will be preferred by certain surgrous. and their experience may justify it Cautery excision combined a th gastro-enterostomy has been per formed in the Clinic in 150 cases I gustine ulcer a th a mortality rate of a 1 per cent, a rat lower than that of any other type of operation performed for gastrac ulcer in the Climic In one series of 48 consecuti e cases there was no operative mortality Earlity per cent of the patients report satisfactors results from the operation, 14 per cent are benefited, a per cent failed to denve benefit, and I per cent are known t have developed subsequent ulceration

are anown t have developed subsequent ulceration.

The cautery is used also in cases of ulcers high on
the lesser curvature. These in any other dituation
in the stomach would indicate partial gastrectomy.

As in the entire series of 7 5 class there have been only per cent of recurrences of uleer including gastrojermal, the fear that the cuttery may fixed produce subsequent ulerration is quite uniformed Similar results are found in connection with cancer 4.8 persons subjected to cuntery action of gastice uleer eight (oper cent) subsequently their of cancer of the stomach. This group, however included cases

of maccessible lesions which were classified at the

time as ulcers but which, in some cases, undoubtedly had become mahanant

In cases of duadenal uter the indications for the use of the cuttery are not so definite bort the method may be employed satisfactionly when the uters believed or there are their ressons for excising. If the bleeding uters are small and on the anterior wall of the duadenum, the point of Pacquelin cuttery may be easily threat through the lesson. Such excision has done more to eliminate the possibility of subsequent hemoerhage than any other one procedure.

D. C. Batroon, M.D.

Judd E. S., and Rankin, F W A Technique for the Resection of Gastric and Duodenal Ulcera, Surf Guer & Oka 9 3, xxvv. 6

A study of the cases of gastric ulcer at the May Chaic with reference to their end results and the type of operation employed has demonstrated that a definite percentage of the patients with gastric ulcer on whom resection was performed about gutro-enternation falled t btas to actor results and thit a similar per entage of patient on whom g stro enterestment performed but the where was left breast also expensesed difficulty It is therefor believed I salle to upplement

lon of the aller like to term on and thi provedure i now follow de ricet sea

A method of acru g duorent aler b hh been used in a large sense of cases described. I ciden permitte direct attack on the pri in me of the trouble in king position in the in ation of the tiends g go tro-extensions and in sea of bleeding her permit a obliter then [1] f finding cost 1 man ses til mys sible i e one th wher lens went tel two dithe fis tain of the dayd name

The duced number reduced 1 5 get 1 of thes us t th reight ring raw. The pe a linear and by delit many the priories half of the stomach on the a ter time of the making at ght tracthe parte 71 al h arel In inclusion I sensil no m II po problem is placed as the tite of the opposite the

terofthepploeuriz li on it upw 1 The first I more tend I through the pent re I cont The home of the disk am pened by trad Im wa

ing the counth that move ! there on the pass of the lare as of the the mucosas kneed sept the blue thy rithe section as left the erred by single ture of

cateut alcuerced the sea to ted holder unusually amounth. If refer mit & Lother 114 d tres ag semorte MI

to) ms. T. The Forms ion of Hemorrh sic Tradions I the Viscous of the Excluded Pylerun (Ceber die Big geber ber or beginden be-sloren Buder Sh. 1 des gradultet Dik ru.) Zentra G. (Chr. .) 1 t

ther report se of kern terrors up which the harmont ges recurred fter gratto-enteroston and gala f to g 1 of the primes a cure of test on there resection of the polonic portion. But I well three small crowlen

Drummond, II Retrograde I tususception of the brault I testine Af er Ga tro-Inter estemy Brill 5 1 93

The uthor case of recurring retrigrade tos susception f the mill int time ft g tro enter ostomy added t those reported in the liter twre makes total of fourteen cases. Drummond! he es the condition must be recognized as one of the ora recations follow g g stro-r terestom

The diagnose i suggested by the history of previously performed gretro-enterestom wider smps a erigh the color the orthogod blood. or in its the present of a palpable terror to the let hyporhordrise region and the absence of run hi il tention. Lacut tenderress.

The witto accust be brought about by too r pelemptung the tom cheaus glimt tion of the regress of locable t perst lu rather than by any particulat perofes thom.

There are to summal. There seem a be a

reliable method of prevent m I w un#

ULLINY MD Tree) J. Lour Cases of Volvules of the Small

I et lar with Obsert tions on the Etiology Level II I I I was Juhrum w four i apr tol (60 cases of

testinal o trust in seen it the Lordon Hometal lyting time I did there a in a la accordinately atte en of these it occurred in the mill testine

I f was also truct to reported in contractal pri for t doper t diamethod filter on led the com If there in the second entities of the mill texture his reserve the few men than

at the Vortee I ter ral Hospit I I h presented use alpoit not I the first case that of laborer the soil descriped I children the trip to the eat. more g f m w four it the tofthe -11 Whe begatient w being ex mirel to or I them Ik bid uppered The u wound relief II ben ent lifer wher of keers to late complered multipe the will I com to create tred be a The temper the was regreat the power that the free-THE POST

At pe the performed beat that is bours fter ti would be the disher hel of h 1 gthe los I to the left 150 depress the digettion to insected and erit ertana en done It w obreves in the seaths the patient had had a volution h h h I become per il corrected. The obstruct and hit at g bevel but the act gul en er per toftwel hours had obs est belamen

biof oungman ! I) wrom t wr mitted the hospiton wit of frailed of the ter was it is be lett, be of the abdominal. If Management exchange in the hand and

feet. 11) piter spe red ers toxic before All) li of dem re t we en fent On the terth day muting or used sex 1 times. A enem was spelled II obsect ad ah flatus. This as talkened to severe and more ung epigratra, palo The next rooming the 1 torse as ma kedly rigid pil me le tel lint miled agreenting general peri

ton to. The game I routst in as poor the tens ps un (4 legenes). I the police 24 Note: t high reliators are found and re

dued that all the patket fuled t recover

from the tourms and died the following day. An ecdymotic spot was found on the inner surface of the abdominal wall corresponding to the frostbitten area see externally. This, in the author's opinion lowered the vitality of the underlying boxel, and when large amount of luquid were given t combat the tournia the increased peristalise caused the board to treat

The hilled case was that of a man years I gree to ge a hosty of givcoman for a period I years and of constitution with occasional periods of durithus for the hast are months. A capit loss of so fits in its years had been associated with an increase in girth. For the past time, days there had been no bowel more mornts although large quantities of institute had been taken. There as no principles.

omiting and no result from esemata. The bottomer as greatly darkended but not tender. Considerable tympuny was noted. There was no polyals he mass in the bottomer, and the rectal examination was negative. The patient refused an exploratory liperatory. The following day the bottomial distention was markedly increased, and he consent of a no openious. The urea surferen equalled 44 mgm.

det oo cm, and the blood sugar was o percent Operation disclosed a hard, unquestionably malignant immor of the supmod causing complet between of the boost. The terminal 4 or 511 of the illeum and the circum ere involved ma of a coloromy was done. After the operation persistent freat worst godewick of the hard properties of the coloromy was done. After the operation persistent freat worst godewised in spate 1 gastine lawage and ther measures to combat t. The following day the ures anticopen dropped to jo min per oo. or The platent them developed a double bronchopneumonia and accumbed few day. Inter

The fourth case was that of man ged 43 years who gave history of occasional tracks of abdomiand pain during the previous are months. Fou days prior to his admission t the hospital there had been a recurrence associated with vomiting. His physician made a chargoous of scut gratritis and prescribed large doses of morphine and a highed diet. Three days later he was given a large dose of castor oil The was followed by an increase in the pain and persentent names and omiting, but no bowel movements The abdomen was scaphoid, tender and resistant, but not rigid. There was no mible peratales. At operation on the fourth day a large volvalus, contra-clocks use, was found involving the upper four fifths of the small intestine. This was reduced, and the appendix, which was acut ly in famed, was removed. The operation was followed recovery The patient returned to work during the fourth week.

In each of the four cases in this report the distal bowel was inactive and the proximal bowel was thrown in unusual peristalize activity an antagonam most favorable for the production of volvalue.

Carey has shown that in the dog, cat, sheep cow and pag, the muscular coats of the small intestine

are not the claused inner circular and outer longtedinal muscle fibers but fibers arranged in spiral form the inner a close spiral, and the outer cost more clongated, making complete turn every so 0.5 cm or more. This arrangement imparts a acres like cuson t perstaks and may be a factor in the production of volvulus.

From the cases reported in this article and his in estigations, the thor concludes that the green slly accepted theory regarding the production of volume is erroceous as I frequently occurs in the bacter of adhesions or othe structural biomissities of the 1 testinal tract. He believes that greater items should be placed on disordered peritabile kidding t intagonium between to segment of bored unequality filled.

Kerr H H I testinal Surgery J 4se V Ass

o 3 ham 64
kert calls itention t the fact th t of the fire
hatologic coots f the intestinal all only the peritoccal and fibrous re important from a surpal standpos t. All intestinal turns should pain
through th fibrous or t as this still keep them from
tearing out and prevent the occurrence of leakage.
The uniting suture should arraginate the perit neal
out so that the alls of the stroma are complet by
airroughed by the peritoneum. One absorbable
ture uniting the fibrous cost and invagination
the peritonical cost is all that is required, even in
tom th resectio. Valurer pening is obtained
by dividing the testine tea naugle f 45 degrees.
This will doubt the area produced by transverse
section.

The author gives in detail the technique of the busting stitch method devised by Parker and himself in 907. Since this method has been used at the technique described he has had no failures. WHILEM E SEGULIFON. MO

Pannett, O A The Technique of Arial Anastomosis of the Alimentary Canal. Proc Rey Soc Hol Lond 913 xm, Sect Surg 8

In axial anastomous of the bowel n abscess often forms it he meenteric border which is do, not only to lack of personal covering but also to interference with the shoot supply. As the strongers thesions are present where personal surface comes into contracting the stronger of the stron

In the author' technique the bonel ends are crushed by forceps in such a way that when they are sposed the meanteric angles ill not be opposed. The ends are then satured by through and through stateless, gross using being presented by clamping the opening. This setture has been discusse from the opening. This setture has the present and the meanter of the through and through stately anserted before the through such through stately

MARCOS H HOMART M D

Luquet: A Procedure to Facilitat the Execution of the Cannell Stitch (U preceds facilitate Personal of point de Connell) Press set Par 9 p. xxm, supp 15

The duadra tags of the Connell Intestinal sittle in the six ness of its execution. The utbor believes it can be simplified and made toors raped by the use of proper infortuments. By employing Judd forceps and by panching up lodds of the intestinal will, the four manorurers of the sixtle may be reduced to two, but the is not quite situation of the will be their, as in the tomach, and is difficult ben corners are to be turned. On Panchers services they must a special J-cm needle with two thangular contact age of the property of the will be contact as and central ty a short as designed by contact and the composition of the property seals?

Suturing as begun at ne end of the gutter by holding the needle bet een the laft index figger and thumb by the rounded portion bet een the eye and point. With the other point of the needle the wall of the gut is transfixed from without in ward up to point where the ey arrives I the wall Then the part of the needle which has pused through the wall is grouped to the right hard and the needle is drawn completely through without changing hands. The needle point, buch his just come through is the turned backward through the same wall, but this time from a thin out and As soon as it has traversed the gut it is grasped with the left hand to pull it through. The opposite well of the gut is sewed in the same manner the hand action being reversed. In this manner the me of a desecting forcers to hold the turnes at rendered unnecessary. The assistant picks up each wall alternately no presents it to the operator's needle point. When once the habit of changing hands utomatically has been acquired, the case and rapedity with which the Connell suture may be p-Extroor Secto, M D phed a extensions

Foucar H O Intermittent Doodenal Obstruction in Children. Med Ci. N Am. 9 3, vo. 8

Two cases of intermittent duodenal obstruction an children are presented to direct attention to the pathologic conditions found in the apper gastrointestinal tract, other than the Romach, which may be associated ith recurrent attacks of vomiting The patient are boy 4 years of ago who was brought t the Clime because of tracks of vomiting which began when he was one eck old and recurred at irregular intervals three or four times year each track hating one to three ceks, during which time the omiting occurred from t to ten times daily. The omitting was projectile and coroons, and rthout relationship to mesh. There was also cramp-like aching referred to the remon of the umbilious. This condition as complicated by broachsectasis of four months duration

Examination of the gratro miestinal tract including runtigen-ray study was negative. One weeklater during a typical attack, the stourtch was seen t be diluted and perstalite waves one present Fluoroscopic examination revealed a definite obstruction in the deodersum 13 cm from the prierus A diagnosis of intermittent deodeoul obstruction was made and surgical intervention was advised

Operation disclosed an extensive chronic adhesive perioducia which had mattired the small arcertimes together. The cause of the tracks was found to recurrent orbuta of the lepimum which, because of the adhesions, also closed the decodenum. Because of the early osset of the symptoms, two concluded that the adhesions were the result of fetal perinuits. The adhesions were reced, and the prepara-

hus had no further trouble

LAET The hastory of this case was samilar to
that of Case the central points being the early
const of recurrent attacks of voninting with definite
permeatile a wer labels in the epigentism. The
was first seen, in an interval between attacks, the
eximination of the gratico-lateritual tract was next
tive. Two weeks later he began voonting and pentive. Two weeks later he began voonting and pen-

staltic a es era vialible. A diagnoses of feiter mittent disorderal obstruction as made. At operation no actual obstruction are found, but the mesentery was ordenstom and markedly tuck-iened by enlarged lymph nodes. The mechanism in this case seemed t. De transitory obstruction due t inability of the intertiance to adjust themselves

because of the thickened mesentery

II O Forcas, M.D.

Hoddy G P B Dendemal Diverticula, with Report of a Case of Gauginnous Diverticulitie. Lesos, \$10, CC 5 7

Doodesel diversicals may be congenial or at quired. Congenial posches constitute only small percentage of doodenal diverticals. The sequent form may be the result of traction from without or of presence from within anodated with local weak acts of the doodenal wall.

The diverticula way aras from any of the three portions of the desclerum, but the majority are found in the second portion on the poster-internal aspect, in close relation to the ampella of later From its dwoders) origin, the ponch may extend any direction, but most commonity extends in any direction, but most commonity extends insurface and the concepting of the duodenum here it to come int close relation with the puncture. The sure of directicula ranges from that of a pea to that of here get. The average space in that of without

The diverticular wall is thin. In the true congential type of diverticulum t is composed of all the layers of the disodenum. In the more common faise or acquired type the composed of pacesses in which Brimner glauds are sensily absent. The mosculars is well defined at the base, but deficiest over the rest of the sac.

Deodenal diverticula probably occur in from to per cent of human beings. They may be formed t any age but are most common after the age of so years. The pathologic conditions which may be super imposed upon di criticula are cute or chrome di criticular inflammation, chronic disodenal extarrh and pancreatitis, disodenal dilatation, and obstruction of the bilary and neutreatic decis

Usually these ponches cause no physical signs or symptoms. The diagnosis is made only when there

symptoms in a diagnosis is inside only when there is a superimposed pathologic condition.

As a rule the absence of symptoms renders treat ment unnecessary. If the pouch is discovered, the treatment is invarianteen if the diverticulum is

amail and excision if it is large, SARTEL KAIN, M.D.

Mucharinski M A. Cancer of the Duodenum (Zur Frige beher den krebs des Duodenums) Seep Chu Arch 9 2 tt, 550

Cardanoma of the dundernum is ery rare. The suther reports a case in which recovery followed resection and cites the literature regarding the publishing an anomaly the symptoms, and the opera in treatment. Operation has been performed in treaty cases of curenoma if the papilla of \ text and in to cases of per ampullar \(\tilde{\text{c}} \) cases of sprapapillary and one case of persymmal curentoma. I the cases of superapolar curenoma t contasted of pullitars patter enterorisors.

Kach, K. Resection of th Duodenum Ulcer at the Papilla (Duodenalresekton Ulcus ad papillam) Retiliely chr. Sysack 9 3 u. 57

In resection of the doodenum, experience and training are of very great importance. The surgeon must be of the opinion that there is no doodenal ulcer luch cannot be resected. In the Bratislay, clinic traction is regarded as the method of choice in chronic cases.

The operation may be divided into three parts of section, cure of the doubtail stump and tosatonous. For the dissection there are no roles except that it must be done according t the indications of the particular case. Clearing of the docum is done by the method of Northry. The terms is network significant with the term as network significant with the main part of the stump premain uncovered over the intemperat without head of the pancress. Amis interpret is placed the head of the pancress. Amis monthly in done by the Kromelon Rechel Physical Phy

The suther reports t cases of older at the pupils. In the first it was possible t conserve the papils sence the lesson lay below it, on the antenor will of the intestine. The obliquely situred dischann had the appearance of continuation of the choice-dochas.

In the second case typical stenois had been prizent for fiften years. The controlly stenois pipils was reserved, and the controlly stenois pipils was reserved, and the controlly stenois pipils was reserved, and the controlled the stenois pipils was reserved, and the controlled the stenois pipils which was embedded in fact there, could not be dissected ort and was therefore saturate with the parenchyma. Both patients make a quick recovery to the controlled the parenchyma.

Fow, II L. Meckel' Di erticulum and Intestinal Obstruction J Am II 422 923, ixxx, 99

Meckel's diverticulum is an embryonic remnant which is present in about 5 pe cent of all persons It comests of finger like projection extending from the urface of the small bowel for distance of from t accm and a found the the lower 6 ft of the ileum. The responsible factor is failure of the vitelline or omphalomese t no duct to atrophy, which normally occurs about the third month of intra utenne life. The remains of the obliterated blood casels which once accompanied the duct may form a cord-like attachment between its tip and the abdominal all, especially the umbilious. These bands are often responsible for knotting of the di erticulum which results in intestinal obstruction The diverticulum is subject also to inflammation and suppuration which produce a syndrome ternally mutaken f that of acut ppendicates In every case of acut intestinal obstruction the possibility th ta Meckel dertsculum as responsible should be considered. As a rule this cannot be differentiated from ther causes of hatraction such as volvulus intraspacention, adhesiona etc. It should be looked for in every case d gnosed as acute appendicities in hich an prorentl healthy prendix is found at operation

Fos reports case of his own in hich diagnosis of acut intestind obstruction the olvilus of the kum was made. This case presented acute abdoornally imported diagnostic properties and a small spherical many rate beneath the umbilities. Operation revealed a volvalus of at if the lot er issum due to a Heckel diverticulum haches a strached by its tip to the root. I the flate could be a strached by its tip to the root. I the flate could be a strached by its tip to the root. I the flate could be a strached by its tip to the root. I the flate could be a strached by its tip to be root. I the flate could be a strached by its tip to be root. I the flate could be root as a strached by its properties and the root as a uncertainty of the root and the root as a uncertainty.

Vance B M. Traumatic Lesions of the Intestina Gaused by Non Penetrating Blunt Force. Arch Surg. 0 3 vn. 07

The author reports t el e cases that came to autopus While they re too few to permit the deduc tion of definite conclusions, they present certain facts worthy of emphasis regarding the anatomical and clinical peculiarities of intestinal injuries caused by blunt force

The misstane may be crashed, tom, or bornt by pressure from a tion. In many natances the mechanism of the volence may be recognized both from the chincal history and the antonical findings t operation or sutopay but in other cases conclusions cannot be drawn with the same degree of certainty. In the cases reviewed, death resulted from intra-bostnmal hemorrhage whenever there, were associated meetiteme and visceral imputes. Most of the deaths, however, were due to personnts. In the cases in which the doodenum was perforated a retropent neal collulate developed.

It is present that the treatment of these injuries is ery unsatisfactory. The mortality is high but

lmost all persons with such injuries die if they are not operated upon Berry cites only t enti-sur recoveries in 114 cases treated surgically and Technitomerdoff onl eight recoveries in forty seven cases. The longer the oper tion is dela ed after the injury the less the chance of recovery. Therefore prompt recognition of the condition is of great importance

A cry slight blint force is sufficient t cause an intestinal injury and amons circumstances may arms which will delay the appearance of the charac teratic cimical signs. Therefore is all casualties in which there is a possibility of violence t the abdom inal parietes the possibility of rupture of the intesshould be borne in mind and the case treated

ecordingly It is the opinion of the staff of the first surgical division of Bellevine Hospital that exploratory liparoton should be performed in every case of blant trauma in which it is impossible t exclude an infury to hollow vacera. Under these circumstances operation is deferred only if the patient is so nearly moriband or in such shock that surgical treatment would itself prove fatal. The absence of the signs of bdommal distress shortly after inners does not contra-authorate surrocal interference as it does not necessarily prove the absence of dangerous ab-dominal lesson. The policy of early operation may not be successful in every instance, but its edvan tages outweigh any possible disadvantage

CARL D \Emmous, M D

Agron, C. D. The Treatment of Speatic Constingtion Am J M Sc o t dr. 86

Spentic constitution as less common than tonic constitution but both forms may be associated. The increased irritability of the vegetative nervous systers may be due to disease of belorantal or pelyse organa. Vagotoma induces spram of the circular muscles of the intestines and contraction of the colon A spann of few nolated loops of miestine retards Someons of the large intesting occur evacuation most frequently in the transverse colon, the bepatie splenic, and memord flexures, the rectum, and the Attus

The characteristic symptoms of speaks constination are delived facal discharge and intestinal cohe tunally preceding defecation and associated with varying degrees of abdominal pain with or without meteorism affecting the entire abdomes or only certain portions of the intestine. The pain may continue for hours and terminat nth evacuation. On palpation the descending colon and thick rope. There is franamond figure feel his quent desire for defecation, and evacuation is incomplete. High grade speaks contraction is not permanent and hence a compatible with the forward movement of intestinal contents spratic and atonic conditions may alternat. There may be retention of faces in the seconding colon and speam of the transverse colon. When prolonged hamstral segmentation occurs, the faces are formed into irregular balls, while m proctospasm the faces are colordreal or ribbon like

Spesticity of the colon is more common in omen than in men, probably because of social conditions. the nervous stram on a orner of the higher cleases and the causal relation between intestmal function and female polyac danase

It is easy to differentiate contracted from a full intestine by physical examination repeated at var rous turnes during the day and by V ray examina tion. The presence of proctospasm is revealed by the

towns of the anal spinneter the rectum fits trahtly

around the examming finger The treatment should include physical and mental relaxation a complet rest in bed or a fresh sir regime may be sufficient to induce normal defects two. The doct should be free from mechanically or chemically irritating foods and should be such as ill render the faces pasty and soft and the intertmal mucous membrane shopery Cooked vego-

tables and fruits, easily digested late, cream cheese, soft boiled or raw eggs curds inhed th cream, bones etc may be allowed. Atropus paralyzes the peripheral ends of the stonomic materia and reisses the spartic intestine. Papeverine and benzyl between are valuable drugs. The use of glycenne epermeta, suppositories, and most leavitives is contraindicated. Layind petrolatum is tablespoonful doses three times daily may be tried. Finner cal es estata are extensively used these consist of an injection of 50 to 500 c cm of pure clive oil at first given daily then on alternate days, and subse quently twee week for period of saveral mouths. The cal may be retained over night or may be given t 6 oo m and retained for three or four hours It lubricates the gut, softens the forces, and forms a protecting cost over the inflamed muccous membrane Some of it probably breaks up int fatty acids and stimulates penstales. It causes practically no discomfort, but some patients have a sometime of tasting oil after an enema If spontaneous evacuation does not follow retention of the on, a small hikewarm soft water enema may be given. Abdominal massage is contra indicated but the pplication of heat may

help to overcome the spanns WALTER C BURELL MD

Strauss, A. A. Ulcerative Colitis Surg Cin Y (m olu

Straums reports two cases H behaves it as im possible t curs an alcerative bowel by dust and medication alone as long as the faces are passing through t, and that therefore medical treatment should be preceded by early surgical intervention to put the bowel at rest

If recommends ileratomy followed in fix or an days by respation through the datal loop of the tieum tilt 1 or 4 qts of normal selune soletion. In conclusion he states that it is no more difficult or dangerous to do an sleo-tomy through gridiron incision under local aniesthesis than an appender Part C Rommere, M D tomy

Hughson, W. Chronic Ulcerative Colitis and Its Treatment. Virginia II II atk 9 3 L 304

The uther discusses those cases of chronic colitis to luch none of the usual causes can be assumed The most probable predisposing factor in this co dution is a lowering of the resistance of the colon due to becterial infection improper diet, or anice bic dysentery

The extent of the disease depends upo its duri At first there is chronic inflammation with superficial alceration of the m cost. As healing takes place scar tussue is formed and trictures may develop. Deep ulceration may lead to per foration. The diagnosis is made from the history of diarrhoss, abdominal cramps, the pussage of m cus, blood, and pres, a loss of weight and progressave prostration, and a systematic exclusion of all other types of dysenters

As the disease begins in the rectum and the sigmost portion of the bowel, the finding f the ulcer tion on proctoscopic exami-ation will rule out canciand syphilis. In the eurly cases the X ray reveals an increase the perist law but later the colon becomes a thick to be thout haustrations

A magle form if treatment is successful in all cuses Irrigation of the colon with antiseptics and bland oils seems t be the most common method The diet must be regulated to preve t fermentation Surgical intervention is fren eccessivy Brown ileratomy seems most feasible. Beocolostomy and

resection of the colon should be reserved f the more advanced cases WILLIAM J PROMETT MD Brown, P W Duodenal Fraymes in Chronic Ul

cerative Colitis. Med CI 1 Am 9 3 VIL, 97 In a study undertaken t determine whether the duodenal enzymes are factor in the tsology i niceration of the colon, the McChire W tmore and Reynolds method of determining enzymatic activ ity was used. It was found that the activity is high in chromic ulcerati colitis, and its degree seemed t bear a relationship to the ctivity of the disease. In one case in which an ileostomy was done the enzymatic activity of the discharge from the electromy wound as as pow if I as that of the duodenal contents. This enzymatic tivity plams the direction of the skin around throstomy

ounds and may be the factor causing ulceration of the colon if decrease in the remain power of the all of the large intestine is assumed

P / Bener M D

mediately

Kolodny A. The F t Reactions in Appendicatis and Cholecystitis. J Iss. Siet M Sec. 9 3 XII, 346

For some time pathologists ha noted an ceum lation of fat in the walls if chronicall threed gall bladders and ppendices

I the appends the fat is found deposited the subspaces, and is present in lurgest amount the datal part where inflammation is most frequent ad Associated with these intramural deposits of f t is an extramural reaction committing of an increase of fat in the mesentery

In all cases of cholecystitis, accumulations of fat were found in the subscrous layer of the gall bladder this accounting for the characteristic yellow color These deponts, lik those in the appendix do not depend pon the patient state of utrition and do not disappear in starvation

In gratine and duodenal ulcer and chronic gestritis. deposits of fat were found in the subserous layers of the at much and duodenum: 40 per cent of the cases. In cases of salpungiths no such deposits were discovered

This difference between the organs of the digestive tract and the fallonian tubes may be explained by the diff rence in the composition of the blood plasma circulating in their walls e by the high fat content of the blood of the portal system

The prominent difference in fat deposits between the gall bladder and ppendix on the one hand and the tomach and duodenum on the other is explained by the weak perutaless common to the appendix and gall bladder which leads to congestion and results in the deposition of fat from the blood of the portal em system

There is little evidence to prove that these fatty deposits are a compensatory function or an ttempt by the body to protect the surrounding organs from threat ned perforation. As lipoids readily absorb t xins, the more exsonable explanation appears to be that they accumulat in an organ to protect the cells f that orga from toxic injury. The correct explanation ill probably be found ally when the physiology and chemistry of the lipoids become better understood Crem J GLARMER, M D

Vacdonald C Acut Sigmoldith Perforation and General Peritonitis Following Rectal In jection Vol J A strains 9 3.

The patient whose case is reported had had obstimite coust pation for years. T. days after eating very heavy meal he as sized a th severe abdominal pain diarrhors, and tenesimus. The stools contuned no mucus or suble blood and there wa no evidence of pent neal irritation. The adminintratio of bismuth ad openin was followed by improvement but two days later the symptoms became more set re nd the stook showed gross blood W thout orders from physician, he was rectal injection of soap and water. The patient stated that during this procedure he heard click as if something had burst The symptoms of generalized peritoritis followed almost im-

At operation few hours later the descending and the pel it colon ere greatly thickened and orderns tous, and punhole perforation was discovered t bout the middle of the sigmoid. The peritoneal ca to as filled with intestinal contents. There no evidence f malignancy or construction. The

patient died t el bours later CARL D \HIDMOLD M D

Hayem, M. I. A Modification of Lambret's Colontomy (Madification au procédé d'anus thaque de Lambret) Ball et mêse See de chi. de Par. 9 3 1813, 444

In Lambret method of performing a coloutomy the ingunal immon to mobilise and divide the perick colon as made below the pedicle of the flap Consequently the blood supply of the pedicle is insufficient to resist the inevitable infection from the soon intestine.

For a situafactorily functioning artificial arms the flap most remain supple and will soonafact. There fore in Imbert, specification of Lambret's method the pedicke of the flap is internal and below. The inguinal incomen through which the intertine is mobilized and divided serves as one side of the flap and hence will not citize a arems of the perfect

and hence will not cause anemia of the predict in the open the relangue consists in the molaimton and sectic division of the privac colon knows; the colon section will be a second or the expely of the upper strong is mobilised for an extenor from to good period of the colon section of subcutations issue with sides sessioning g and subcutations issue with sides sessioning g and good to respectively sect the yet criticaling the first in cause coulward 5 to 7 cm. then short distance perpendicularly operant, and finally is and for

casion outward 5 to 7 cm then abort datance perpendicularly opeard, and finally in ard for on parallel with, and above the first incusion Thus the pedicle is on the inner side below. With the index finger inserted in the abdomen an orifice is meneral corresponding to the center of the hinge. but cm outside and t this point The uppurend of the colon is extenorized. The first abdominal messon a sutaged by layers. The seromuscula coats of the mitestime are transfixed t several points to prevent retraction of the bowel. The skin opening, which m reduced to lowenge shape with the long axis vertical, is sutured transversely and the crown of the extenorized intestine is tracked at several points to the edge of the skin sheath. The opening is closed by pressing the intestine garnst the plane of the abdominal wall by means of bandage around the want

around the want

The author has employed this procedure ery
macanefully in two cases

WALTER C BURERT M D

Widowstz, P. The Treatment of Recal Prolapse in Childran by the Press Fosition (De Behandlung des Martdaraverfalles der Kinder antichpantver Eurchigg). Huenden mit B. drucke ost hut, 500.

and the application of a spice, to keep the infant as much as possible in the proose position, the postion normally assumed by the young of quadriped. After from t to three weeks beining at he sail facently far d anced for the gradual resumption of the souther position.

Bule, L. A. The Importance of Protoscopic Estmimation. Hall Circl. N. Am. 9 1, vo. 1

Patients with rectal diseases often present themselves early and are treated authors diseasests care selected to be a selected and the selected to be consistent to be come advanced before its nature is determined cancer of the rectum is frequently discovered during an operation for hermorrhoods. Examination of the rectum is not difficult, but proper use of the

processore requires experience.

There are many types of processores. Each operator must select the unstrument which he finds most annible. At the Mays Climic modification of the Braich processore is used. Dry cells with connected rheatat are best to supply the current for the light. An inflating trachment, help accessary in certain cases should be employed as infrequently as possible and then with great care and the contract of the contract and area. Local assesthesia is achieved, if were necessary. General assertions should never be read.

The evening before the examination as supper should be allowed, and a on of curtor oil should be administered. The morting of the examination the patient may have light breakfast, and cleaning cosma should be given until the water cones clear.

The knee cheat position is attafactory for most oct, or the Sims position if the patient is well. The Hagner precision of the patient is well. The Hagner precision of digital remainston about fully with the floger cot laborated with nor initiating substance. The relatify position of the arous and the rectum and the curves of the rectum and the surmoid should be legal mand. The procision of the properties of the properties

Care must be taken not t make under pressure gainst the muses membrane at any time Portion only the metallic edge of the proctoscope may strake the enteron membrane against the sacrons and cut through it. Anterothy, pressure produces pall on the mesoagmond which causes cramping the pattern at their matake to word straining down,

hach makes further proctoscopy impossible. The proctoscope should be carriedly directed through the humen of the box I and the inflator should be used hen to impossible to proceed in the manutroe great pressure should be worked because of the possibility that the interference is due t the pathopse conductor mither than an anatomical irregularity

While it may not be freshis for the general practitioner or general surgeon to become thoroughly

versed in the prearance of all rectal lemons, the encerance of the normal mincous membrane can easily be learned and enough can be made out on proctoscopic examination to rule out serious dis esse attracted shown hiermorrhouds about to be operated on or to warrant referring the patient t proctologist I. A Buna. M D

Lefebrrs, C. The Surgical Physiology of the Large I testine (Physiologie chirargicale gros intestin) Arck frence befres eacher Q L XXVI

The surgical indications to be draw from the physiology of the large intestine are as follows

t Every effort should be made t preserv the function of the deocecul valve. A execute most only is better than an ilenammordostomy

s If resection is necessary anastomosis will be advantageously effected by creating an artificial valve—for example, by Kellogg's method 3 In operations upon the colon the surgeon

should bear in mind the utility of the proximal colon such is ventable stomach, and sacrifice it only if absolutely necessary. In cases of chronic intes tiral state a drainage anastomous should be tried before colectomy is done

In the author opinion a carcoaugmordostomy survers the requirements best as t preserves the deocecal valve, drains the colon well, and preserves the deestive function f the proximal colon Pre servation of the dastal colon is less important

Ti A BREN

LIVER, GALL-BLADDER, PANCREAS, AND RPLEXE

Ristina, C. C. Observations upon the Phenol. tetrachlorphthalein Test for Liver Function Ass Clu Med 0 1

The most satisfactory method f determining hver function as the phenoitetrachlorphthalem test as modified by McNeil In this procedure duodenal tube a introduced after twelve hour period of starva tion When the tube is in the duodenum, as evidenced by a steady outflow of bile stamed fluid t the rate of taxty to eighty drops per minute, sol tion f 50 man of the dy in 5 ccm of tende water is in ected intravenously and the bile flow collected in bottles for t to three hours. The first appearance of the dye is indicated by pink tinge when few drops from the drupping tube are allowed t flow into 40 per cent sodium h) droxide

The time of the first pressure of the dye of the maximum change of color and of the disappearance

of the d) are recorded

The liver functioning normally eliminates phenol tetrachlorphthalein in from eighteen t twenty t o minutes the maximum channation is reached in approximately eighty minutes and the dye dumppears in from one hundred and twenty to one hunered and forty minutes

In cases of cholecystitis, entarrhal jaundice cholangitis, and chronic passive congestion of the liver the time of the appearance of the dy was be tween thirty five and forty minutes, while in cases of gall duct obstruction it was between seventy and ninety min tes. These results show that when the liver and bile ducts are diseased and when circula tory barners are present there is definite inability to eliminate the disc permally the diminution in the total output and the delay in the in tail time of out out running parallel with the destruction that has oc curred in the byer

The beneficial effect of on surness drainage of the biliary tract is evident in most of these cases, emecually those with stagnation. Such drainage is followed by an increase in the quantitative limnation of the dy and is earlier mittal appearance

CYPIL I GLASPIL M D

Specht O Animal Experimentation on the In-fluence upon the becretion of Bill of th

Administration of Fluids, Preparations of In-ternal Secretory Glands, and Various Drugs (Teresperimentelle Untersu hungen seber die Be emforsung der Gallenabsonderung durch Floes nigkertstrufuhr Praeparat maersekratorischer Drussen, sowas emzeine Medikamente) Bestr.

Chir 0 3, CEXVIII, 240 Up to the present time research this subject has been carried out only by physiologists and in terrusts and many of the reports on the influence of the administration of fluids are co tradictory W th regard to the effect of the internal secretory prepara tions the investigations have dealt only with adrenalin and pituitary extract. Specht a experiments were made on fi e dogs A complete biliary fistula was established mainly according t Pawlow direct tions but the choledochus was sutured to the ski to form a sive fistula. In most cases the gall bladder was allowed to remain. The food given the animals during the period of experiment tion con anted usually f potators and other vecrtables and bread Meat was never given unless f r the express purpose of the experiment. Beyond the amount of water contained in their food, the animals received no fluida

The secretion of bile in the five dogs was about equal when similar food was given and even when there were marked variations in the amount of food. Only the feeding of ment caused a increase in the production of bile. An increase is the intake of fluids, whether milk or physiological salt sol tion given by mouth, subcutaneously, or intra enously caused no greater flow of bile than following dry

(ceeding Under normal conditions the amount of bile secreted at night was the same as that secreted by day The amount secreted during different parts of the day varied little and in this also there was no change following the administration of fields Similarly the specific gravity of the bile was practically con tant, and in the same animal the amount of solid matter did not vary as the result of any of the experiments mentioned. Further it was impossible to Hayern, M. L.; A Medification of Lambert's Colortomy (Modification an procide d'anns thaque de Lambret) Bull et méss der de chir d. Par. 9 3, hh. 4.

In Lambret's method of performing colosiomy the fragmal meason to mobilize and divide the petric colos is made below the pedicle of the flap Consequently the blood supply of the pedicle is insufficient to resist the localitable infection from the open intesting.

For a similationly functioning artificial axis the flap must remain supple and well nounshed. There for in Imbert's modification of Lambert's method the pedicle of the flap is internal and below. The inguinal income through both the threatise is modulated and divided server as one side of the flap and hence: all not cause anorms of the pedicle

The operative technique consists in the mobilination and asceptic division of the pelvic colon through a ro-cm line increasion parallel (it is the fagunal fold). The lower get tump is abundanced. The blowing upply of the upper stump is mobilized for a lected of from 12 to 5 cm. A quadrilateral flap of skin and subcultaneous tissue. It is askes measuring 5 and

cm respectively a cut by extending the first incasion outward 5 to 7 cm then short distance perpendicularly appeard, and finally inward for a cm parallel with, and above the first incision Thus the pedicie is on the inner side below. If the the index finger inserted in the abdomen an orifice is prepared corresponding t the center of the hinge but cm outside and thus point The upper end of the rolon is extenorated. The first belominal mession is sutured by layers. The seromiscular costs of the intestine are transfixed t several points t prevent retraction of the bowel. The skin opening, which is reduced t lorenge shape ith the long axis vertical, is sutured transitersely and the cross of the exteriorized intestine is attached it several points to the edge of the skm sheath. The opening is closed by pressing the intestine against the plane of the abdominal wall by means ! bindage

of the abdominal wall by means f bindage around the waist.

The author has employed this procedure ery

Successfully in the cases

Walter C Burket, M.D.

Widowitz, F. The Treatment of Rectal Prolopse in Children by the Prope Position (De Behanding des Mandarau-orialies der kinder autteipassiver Baschlage). Unrachen med B. hasche o. p. 1st. 300.

The pel ic flow in infants above an ontogenetic weakness on account of the abent of the sacral exact ison and the fact that the forward rotation of the pelva has not jet taken place. It is dispited the static fenctions of the quantiqued but not to the intentions of the primatal bank carries the entire weight of the intentions in the terrat position. It is presence of pathologic conditions it may be even less developed. Therefore in cases of rectal proj positive drawfully after production of the prohaped down.

and the pplication of spice, t keep the infant as much as possible in the proof position, the postion normally assumed by the young of quadrack. After from t o to three weeks bealing ill be sufficiently far advanced for the gradual resumption of the supuse position.

Baile L. A. The Importance of Protescopic Exactle reation. Med Clin V Am. 9 3, 3

Patients with rectal diseases often present them selves early and are treated uthout diagnostic examination the condition thereby being permitted to become advanced before its nature is determined cancer of the rections is frequently discovered daring an operation for harmorrhoods. Examination of the irection is not difficult, but proper use of the

proctoscope requires expensive
There are must, types of proctoscopes. Fach
operator must silect the instrument which he finds
of the Beach proctoscope is used.
Described the second of the Beach proctoscope is used.
Described the control of the Beach proctoscope is second for the light An mistage stateshment, lach is necessary in certain cases, abould be employed as afferquently as possible and then with prest care. The second processing in the second processing the second procesi

anarthesis should be err be used.

The evening before the evenimation no supper should be allowed and or of castor od should be administered. The morning of the examination the pattent may have hight breakfast, and a cleaning enema should be given until the water comes clean.

recens about to give usual the water comes can. The large thest position is situlatorly for most work, or the Sams position if the places its patient in an ideal position. A digital examination about fully in the integer certification of with a countriating substance. The relati position of the annua and the rectum and the curve of the rectum and the agreed should be kept in much The processory of the control of the control of the control of the curve of the rectum and the agreed should be kept in much The processory of the control of the control of the control of the curve of the remarks of the control of the con

Care must be taken not to make undue pressure against the mercuis insensitione at any time. Postern only the metallic edge of the proctocopy may strike the murcus membrane against the sacrum and cut through it Anteriorly pressure produces pell on the mesongmost hich causes cramping the metallic their metallic to odd attributed down.

patient is then unable to and straining form, hich makes further processory unprosible. The procticeops should be carefully directed through the largers of the bowel and the matter should be seed. Ben it is impossible t proceed in this manner. Too great pressure should be onlied because of the possibility that the interference is due to the pathoisopic conditions rather than as automical irregulation.

While it may not be feasible for the general pear titioner or general surgeon t become thoroughly the actual or functional removal of the gall-bladder as a reservoir. The constantly increased amounts of bale fats and bile alkabes in the intestine re fierly diminuch the gastric secretion. The frequency with high inflammations of the gall-bladder involvthe stomach and duodenum as dependent upon the common nerve supply and pon the intim t con tact of these parts which is increased by adhenous formed in the course of will tone disease

Thoras (Z)

Danischat, E : Th Fffect of Cholelithiasis and Cholecustectomy on th Secretory Function of the Stomach and Duodenum (Der Eanfines der Cholehthauss und der Cholecyrt ktomse de sekretorische Funktion des Magras und Duodenums) Beir Hi Chir o 3 carron 605

In about two-thirds I the cases of cholclithuses and cases treated by cholecy stectomy there is decrease or fashure of the free hydrochloric acid. In small percentage, however, there is hyperacidity The other has observed these disturbances in the and secretion of the stomach no more frequently in cases with occlinion f the cystic duct than in those in which the cystic duct as patent Nevertheless, he agrees ath H blweg and Schmidt that the chief cause of hypofunction of the gastric secretion is the functional or operative exclusion. I the gall bladder However the f ct that normal or ev n increased hydrochloric eid values are found in one third of the cases in spite of functional failure or removal of the gall bladder indicates that other I ctors to play a part Comparative studies on the sam pa tient before and after the removal of the gall bladder show that as rule the ore operates cidit

alues persist after the operation, and that he achylm develors the lemons are usually urrepara ble A change in the cidity is uncommon. The observation that in very small umber of cases there may be change from anacidity t normal hydrochloric values indicates that sometimes infer tion may be responsible for the occurrence of achylua

in cholclithman

According t Roysing a theory which ttributes particular importance to the sphin ter papille the phincier remains continent and there is com peasatory widening of the bihary passages in the presence i normal hydrochloric values, but in the presence of achylia there is incontinence i the sphincter and the biliary passages are of normal size In the author's opinion this theory is incorrect as in the cases reviewed t was impossible t establish any law governing the with of the bihary passages on the base of the acadity. In animal experiments an chyla can be produced artificially by the removal of the normal gall-bladde As atudaes in clinical cases of cholelithman and the findings of animal experiments indicate that the functional or operative evulumon of the gall bladder is of chief importance in this anomaly of secretion t is possible that choice; tec-tomy might have—favorable effect upon hyper chlorbydra and its sequele CRETTE (Z)

Papin, F Pyloric and Duodenal Stenoese Due to Gall-Stones and Their Surgical Treatment (Les sténores prioro duodénsias does à la hithuse bilinure et leur tractement chirurmeal) J de mid de Plandra 0 3 ECY 75

The author reports three cases of high intestinal obstruction due to large gall stones. This condition may result from the passage of the stones into the lumen of the duodenum, compressio of the pylorus by no adherent call bladder containing stones. inflammat ry adhesions about the gall-bladder and duodenum, or pressure from hypertrophy of the

bead of the pancreas The surgical treatment of such cases in gastroenterostomy alone cholecystectomy alone, or the two procedures combined Loyar E Dayn, M D

Papin, F Cholecystectomy for Lithiasis; Trans-erse Section of Three-Fourths of the Circum ference of the Common Duct; Suture Cure (Cholécystectome pour hthese section transver sale des tross quarts du cholédoque suture guén son) Bull of min Sec de kur de Per o 1 xhx.

During very difficult operation for cholelithiasis Paper accidentally cut the common duct transersely for three fourths of its circumference. Immediate suture was successful, and the national reovered a thout severe complications

In the discussion of this report Gosset emphasized the fact that stones of the common duct often escape detection clinically as they may not produce any typical signs, and that therefore in all operations for cholelithiasis a methodical examination of the bile ducts should be made. He recommended exposure of the cystic, hepatic, and common ducts preceding cholecystectomy t prevent their acm

complete suture of the common duct but later returned to drainage

dental injury. In a few uncomplicated cases he did Hartmann stated that dilatated of the common duct does not alw ye indicate a stone as it may be produced when the gall bladder is not functioning AS & PERSON RUDGLER MARK, M D.

Gramén, K. Subsequent Examination of Pa tients Operated upon for Gall-Stones in the Secution Hospital in the Period from 1991 t 1912 (Nachuntersuchung der on 50 19 im Serafimerlararett openerten Gallensteinkrauken) Hyene Stockholm, 9 3 lexxy 356.

During the period from 189 t 1913 there were 334 operations o 313 patients. The mortality was

5 per cent for the entire period and per cent for the last five years Recently it has been still further decreased by better | dging | the indications The patients wer re-examined twice, in ore and

One hundred and minety seven reports were received in 9 3 and 13 m 932 I 19 3, twenty two of the patients were dead, and in 92 twenty three more. The patient condition was good in 68 per cent of the cases, fair in per cent, and pooin to per cent. The results of cholecystectory were considerably better than those of cholecystectory. In act of eight cases in which cholecystectory gave poor result a cholecystectomy performed later was accessful. Ventral kerns, occurred in 3 per cent of the cases, being caused possibly by the wide tempons used formerly.

Seitz, E. The Care of the Stump After Cholecystectomy (Zur Frage der Stamph ersorgung nach der Cholecy stektonen). Zeutrelld f. Chir. 9 3 l. 7 J.

In performing cholexystectomy the author seven the errors by a median include and endeates the gall bladder on both sides. I the holice between the invertible around round by the automa of the three and among the by the automa of the down to the atomp of the syste dust. He down the temporal three strengths are the strength of the side attention to at because it in our generally said although error metical.

alloogy ery patricis;
The media pleases of the series is made in Bier (time in ill cases in which the series in drain's bier (time in ill cases in which the series in drain's bier to discuss it used to formed be the part of the cases of the series of the series of the series in this series of the series in this serie. Any flow of bid which does not reach the extent of the series in the series and provided and resorbed if it is small. The feared (thesens are caused by melection and gamma timpous. In the author's opinion there is no such thing is an indeal colorystication.

Simon, L. and Schlegel, A. The End-Results of 28 Cholscystactomies and Eighty-Two Chelddechotomies from the Standpoint of Postopers tire Complaints (Endergebox von 35 Chole Cytichoma and St. Choledochotomen en Setting rut Frage der postoperatives Backwarden). Best Mis Cher. 9, 3, ctrut. 6 5

Of a justients subjected t cholesystection; the subton were able to re examine to. Forty as of the latter bad had choick-do-totomy in dittion one hundred and treaty four (88 6 per cent) are entirely well, and sattern (1 s, per cent) are entirely well, and sattern (1 s, per cent) have more clean descender Of the latter five are subjected to simple choices strong the foreign temperature complaints are soit dependent upon changes in the gustin juck Some of those controlled to the product of the controlled to the c

When the pancreas was iffected to decletches tomy was performed, even in the absence of stones or inflammation of the common duct Is four cases the epigazine complaint as reducity due to pan creatic condition as the stones show a kigh fat content and the districts exit a postur in two cases the complaints are due to decision. Rupture of the sone occurred a eleven cases (seven median,

three undelating, and use paracetal income) between only one of the patients compiling of decorated. In two cases the recurrent complaints are to be attributed to overslooked calcula. As disconsister followed numbe choiceystectneys in only 57 per cent of the cases, but persisted after choicechochotomy in 30 per cent, the uthors hav recently setured the choicebochots it is twenty to case so treated their choicebochots. It is twenty to case so treated their choicebochots in the complex of the choicebochots are not considered. The choicebochots are not used to be considered.

Crile, G. W. Special Pounts in Gall-Sladder Sorgery 4xx 5xx 9x3, bxvas, 9

This article is based upon the experience of Chile and his associates in 13 operations on the gall bladder. Their percentage of cornet pre-operatin diagnoses increased in direct relation 1 the amount of study devoted 1 the case by the recongenious study devoted 1 the case by the recongenious in a fine a opinion in a doubtful whether ery may diagnostic aguidance can be attached 1 the Lyee

Cholecy stectomy yielded a higher percentage of postoperative symptom-free results than cholecy-toxicity. Since 19, 7 is per cent of the guil-bladder operations have been cholecystectomics and 6 per cent cholecystostomics. This corresponds approximately to the figures of the Miss. Clinic.

Cholecy stostomy beam lower mortality and as the operation of those for poor surgical risks. Morphine is contra indicated in these cases became of its specific depressing effect upon the li er.

Crile still heritates to close a choiceystectomy sound ithout dramage. He prefers high Berna memon for ample exposure, and adequate packing with game t protect the general peritoneal cavity

In the sense of cases studied the mortality of cholecystectomy was 5 per cent and that of cholecystectomy 5.4 per cent. These figures miss it appear that cholecystectomy is the saler operation, but this is due to the fact that cholecystectomy was performed in the cases that were poor risks

The choice between cholecystectomy and cholecystostomy should be based on the patient's condition

Crim. J. Grannin, M.D.

Lien, B. B. V. The Selection of Cases Which May Be Benedited by Internsitient or Continuous Medical Drainege of the Gell Tract, with Brief Decusion of Methods. Internet J. Surg. 0.1 3304, 855.

Fire years ago Lyon first mireduced his notified for the more carct diagnosis of diseases of the bilary tract. As as well known, it depends on the observation of Veltzer that politions of migracisms sulphite pibled to the disorderal mireous permit the decays of bile into the shooterm by relaxing the tomoty of the disorderal well and Odds spitherter. Lyon found it possible to recover through the

disoderal tube fractions of bile which differed in physical, chemical, and microscopic properties. These A. B. and C fractions of bile from the ducts, the gall-bladder and the liver can be segregated by careful technique and allow accurate deductions of degreestic value. The procedure has been termed appearageal drainage of the gall tract

In intermittent drainings the duodenal tube is pessed and left as int. for from two to six hours and during this time to or three magnesium sulphat stumulations and one olive oil stimulation are given As much bile as possible is recovered and the treat ment is terminated by duodenal disanfection.

In contingous drainage the tube is flowed trends i the doudenum for from several dat three weeks, with one if mulation of magnesium subhairs and oliv oil draily it secure exact tion f is much bile as possible each day. It me tent drainage can be carried ut in the office the patient bone, or the hospital

Non surgical draining is indicated in cut subscure cholesystilis cholesystilis cholesystilis cholesystilis pre or post operative cholangua, postoperative biliary fait la, cup; ent of the gall-bladder in which surgery is counts indicated, bilitry cirrbons, permicous and

mia and chlorosla, hamolytic ja dice

tone types of hepatitis, etc.

Cost moss draunage is carried out best in the hospital or if the patient superration of a transed nume. It requires for two to flow weeks. The author of costs if the total of the superration of a grad by defer focus, cholecyatitis in typhod conduction of the superration of the superrat

Jours II Nature M.D.

Sherren J Stone in the Common and Hepatic Ducts. Lence 923, cc. 7 The presence of stones in the common or hepatic

duct indicates the lack of proper and efficient trent ment of previous gall bladder disease hole cystetions. A medical treatment is known as yet

but a li remore the crime or desols the gall interest Treatment is still tool frequently p. or for patter kesons when the symptoms are due entired tookstituss. The calcul form prim in it in the full bladder but in the presence if infection and bis struction may increase in size and number so as a form a solid chain plugging the common and heratic data. It is follows them that stones found in the common duct have formed primarily in the gall sac or ire serricoided at choicy steetomy.

A pre-operative diagnosis I common dust atone in possible only in the presence I typical stacks of cole associated ith jumbles and rue in the temperature. Jamelice is out II present at some time the utbor series of 113 cases) undice occurred the utbor series of 113 cases) undice occurred.

in teventy-eight and in thirty three it as present and severe t the time of operation Many stones may be present in the common duct without causing Janobice. In the majority of the author's cases there was a history of abdominal symptoms for years. Most of the patients came to operation between the ges of 45 and 55 years.

The treatment consists in the remosal of the stones followed by cholecy tection; t prevent further tone formation. A shrimken gail bladder and a dilated exists or common duct is the without history of jaundore stronely suggest the presence of common duct calcult. In such cases the author explores the common and hepatic ducts with a probe meetred through the stump of the exists does it is should be the dilate the ampoula of \(\text{tr} \) to case was t found necessary to open the duod.

um t remot impracted calculus from the mpall. Whe it is enlarged by incision the stump of the cystic duct is closed with a continuous suture f \ oo hardened catgut. Drainage is ad ocated when an infectious cholangitis is present or prolonged when an infectious cholangitis is present or prolonged.

man pultion is necessary

I to of the uthors cases in which death oc curred f flowing choledochotomy overlooked calculre found tautoney Cases presenting obstructive saundace with cholangitis ire poor ri ks. For these Sherren d ocates it o-stage operation the first stage consisting in dramage of the distended gill bladder or common duct and the second in chole cystectomy with removil [y cylcul present in the ducts. In the 13 cases reviewed there were leven death. Nine I these occurred in cases of betructive tangelice. None of the ial indiced national died I hamorrhage. Three deaths were due t lung complications and the remainder to hepatic insufficiency coming on between ten and eighteen JOHN II N RUK, VID day free operation

M 30, W. J. The Surgery of the Hepsti - nd Common Bile Ducts. Lancet - 9 3 Ct. 299

The common duct is discussed a whole from the point where the hepritic duct emerges from the into the disodenal papilla, because the pathologic processes with which the surgeon is concerned in this special field must be treated as a whole

I the period from December 31 150 to December 4 25 there erg 535 operations performed on the billiany tract for all conditions, acut chrone, and mailtim 1 to the eleven improva on the general staff of the staff of

All principles dring in the hospital following operation were classified inhout regard to the kength of time thereafter or the immediate cause if death, as ha ung died from the operation. While it man seem somewhat severs to classify as operature death those of patients who, when operated on, had chrome nephritis, bepatic resulficiency frees bilary cr rubasis, and secondary cardiovand disturbance, the result of months of cholerais and dist infection, and those of patients who dead in the hospital secure of the control of the control of the conweeks after the operation from cares not connected with it, it is difficult to secure competed statistics from different beopetab without as are burray standard of chanicistics. Perhaps, too there is a certain attendation in bolding to high standard of responsibility.

A satisfactory improvement, so far as mortality is concerned as manifested by those data. Improvement has been greater than would be parent from a tody of mortality above because of constantly foregaming low-sedge and improvement in technique more and more severe cases have been accepted for operation and oparations have been accepted for operation and oparations have been accepted for a facility of the control of the cont

tempted
Cartan fundamental principles which greatly af
fect the elfare of surgical patients must be eval
uated. They concern () the mortality from the
consented () the hearts from the coveration and

operation, () the benefit from the operation and (3) the dashility following the operation The price of the operator and his statistical skill in honestly ruggling percentages mak most eston-ishing apparent differences in statuties which are nearly identical. For instance, the early transfer ence of the dangerously ill patient t the medical earle of the housetal became of medical complication is helpful from the standpoint of serious statistics If overstoos, rather than cases are counted, and number of operations are performed on the same small series of cases may mak a large series of operations. Mortality estimated by cases is buch, but estimated by the number of operations, is low although the number of deaths would be the same. Again a slight operation which does not cure will be a test m an uniavorable case. If the patient does not react well, the curstn's procedure with the major operative risk may not, for many reasons be undertaken and consequently the patient is not given the chance for ours high primary radical operation would offer

N study surpoil tragedes and endeavor in every way to hold operative mortality at the lowest point, but the mere fact that patient reverse from an operation is not in itself sufficient II be does not occurs sufficient lowest from the risk to his the pass and stellaring from the operation must the exposure, and the low left the passes of the lowest lowe

The question of postoperature dashitity is important. A surgical procedure should be planned so that the patient will recurve the greatest possible benefit with the least possible risk and loss of time Today industry is on full time here and every day that the patient is unnecessarily described is an economic loss T perform several operations when one would suffice and thus deduce an apparent but not a true reduction in the mortality to use type I meason not strictly indicated for the work at hand, or t was unnecessary drainum, buch confine the nationt to bed longer or leave him with greater liability to herma, is unjust. This economic loss is illustrated by a comparison titen ear is tervals of the hospital morbidity following overs tions on the biliary tract. The methods in are today as compared with those used ten years ago sive for each patient operated on in the Chine tea days of hospital time or thirty six years of the lifetime of one Demon.

The meason used in the myonty of openiuson on the bilary passages has been the fromson anti-duced by Beran. Soft alightly modified XI. Arthur recommendation to lea. the posteror approximates, the perticeson and the severe is the lover than of the narrow and tracked in followed the contract of the narrow modified in followed to the contract of the narrow of the nar

Secondary operations on the common duet for the removal of stones may be most difficult, especially if the gall blacker as removed (the first operation, if dense adhesions bind the area is confused mat, and if start of hepatrix or bihary currious makes the liver blead at. toneb.

the liver based at 1 toom the property of a stone from the The importance of renorming all atoms from the The importance of the child of the Choic case to which de-th followed portation on the common date of or stone, the post mortem extumation revealed that not all of the stones had been removed. Some postmorters at amirations are made on more than to per cent of patients who doe in the hosqual, this referring to have been of very great importance in adding the moveking white properties of the properties of th

Next t gall stones in the hepatic and common ducts operative insures demog cholecratectomy are the most common cause for operations on the common duct. The most serious and difficult opentions are those which have for their purpose the res toration of totally interrupted biliary connection between the liver and the intestinal trice. When in pary of the common or hepatic duct has been recoggused at the time the injured duct has been secresfully repaired in every materics. From the stand point of ultimate results study of the operation methods employed in these cases indicates that is any case in which portion of the duct was sortdentally removed and the injury as not discovered and repaired at the time thus necessitating secondary reconstruction, direct union between the stroup of the heretic duct and the duodenum is the best DOCTATIONS.

Of the causes of death after operation hieror rhage, hepatic and renal insufficiency and infectors of the bile dects re the most common. These conduces are directly related to the existing chronic obstructive Jaundice, hepatitis, bilary circhous, de hydration and chronic undernourishment. I

renew of the postmortem records for five year period of patients who died following operation on the bihary tract, Walters found that in 68 per cent of the cases with junidice in which death occurred whin the first, etc. after operation there was more or less blood in the abdominal cavity usually the result of county from slight in joines to the liver. Of

itself, the harmorrhage was not sufficient to cruse of sundand patients in poor condition, unless there is definite radication, choicy steetomy is not defeat to describe the risk of the operation on the common bile duct because of the danger of injury to the three which adds to the nositivity of slow postcoperative country.

As these patients are dehydrated and usually naabelies take much pornshment an attempt is made before operation to introduce a quantity of witer not the system to aid renal chiminatio. As a rule it is difficult to eccomplish this by mouth it is best done by protectories or subjection county.

A third factor of importance in these cases as begatic fariafficiency which rum parallel with result mentionery. In the presence of hepatic insufficience the blood signs may appear to be at the normal level when it is not truly so because of the concentrated state of the blood from debydr tion. Direction, in the presence of hepatic insufficiency special process of the concentrated state of the blood from debydr tion. Direction, in the presence of hepatic insufficiency special process in polium states in given by rectum org. Just certain in softum chloride solution as given

relicationshy. In characteristic calcium chloride free intravenously has proved effect c, ad in creata case about transfusion is a remedy of resurkable efficiency. I alture of normal blood clottering in the faunded of patient is specific inducation of departition of blood calcium. It remained for Lee and I meets to diversition of the calcium in a oper cent queous solution intravenously at the grinking result. When the sadministration of calcium fails to reduce the desting time to normal blood transfusion will turn thy cause temporary reductions undifficient for oper-

The careful pre-operator munagement of pain deed patients by greatly reduced the morrhit of spentions I I I years not ample patient in the Chorac operpared has bied following operation During 0 3 there were only four deaths (6 per ent) in 30 operations on the common duct for stope infections, explorations, etc.

Meyalban, B. Secondary Operations upon the Billiery System. Lauret 0 3 cc: 4

Morsibin states that percommately so per cent of the patients with chole lithiasis upon whom he operates have had previous operations for gall tones. It believes that the majority of gall tones

are formed primarily in the gall bladder. The chief factors in atome formation are infection of the bile passages and an increased cholesterol content the blood. Infection may reach the gall enc from the blood stream from the liver bile, from the lymphatic plexmes of the ppendix puncreas, etc from the common duct through the duodenum or from ad pacent vacera In acomplicated cases of chole lithiasis the cholesterol content of the blood tends t be high Sixty per cent of Mounthum's patients have hypercholesterolemia Secondary operations on the bile tract are necessitated most commonly by stones overlooked at the first operation. Moynihr inserts the first and second finger of the left hand through the foramen of Winslow and carefully nalpates the duct between the thumb and fingers along to entire course

Calcult in the ampulla of Vater are best treated by opening the duodenum and enlarge g the ampullawith or thout a ture of the duct edges to the duodenal wall t permit the passage of the stones in the bonel Moynihun has made t a rule to drain all cases i multiple stones. In common duct obstruction due t stones there is cholangitis ith frequent ly multiple stones and sand in the herritic ducts In such cases rubber catheter is passed through the ampulla mt the bowel after the method of Mc Arthur This produces continuous dilutation and permits the diministration of fluids. As much as a to 5 pts of 5 to 5 per cent glucose solution alus sodrum bearbonate may be go en by the drip method and will be will retained. The tube remains in the duct for from ten days to t It is often id antageous iso to irrigate the benefic duct with salt solution

Another frequent cause of secondary biliary tract operations is primary injury to the common bile duct during cholecy steetomy. The invokable rule for gall bladder urgery must be. See easily whit you are doing and mult you see do nothing.

Chronic pracreatitis may from lead to duct obstruction accessitating cholecyste terostomy or cholecystectomy

Operations on deeply paundiced patient must be preceded by adequ t preparation. The t gri e dangers are bepatic insufficiency of postoperative harmorphage. Jose W NIZOM, M.D.

Lillenthal, II Chronic Biliary Fast last Implanta tion of the Simos interthe Stomach 4 Sarg 0 y law 765

Lilenthal case was that of woman on whom a holes; Motoro was doe in 1917. For 1 years after this operation the patient was free from ymptoms but the began to he expanite point radiung t the back. While he was in the hospital for mother conditions an cut that he disposant countries with the control of the

procedure. A closely fitting rubber t he was passed into the hepatic duct and fixed in place by fine chronic catent statch.

As his continued to drain from the wound for over two months, even after removal of the table an operation to chose the firtule was does. The firstulous opening was crumenced so that this collar of six was left, and the sums was freed from adhesions. A guaratomy was then performed boot 31/6 from the pylorus auteriory; and about one-third of

the way from the leaser to the greater curvature and attrught needle carrying that, all was planged into the stomach through the greater curvature and brought out of the gastrotony opening. The silk was fastened to the fistilized trict bear the skin. The fattle with the mins at drive to the thorn ash by traction on the nilk. I drived by four of the directional citypi satures passed through the outer costs of the stoward. Therefore, are most of the true. The silk was entracted through its place of entrance. The cound was closed in the layers with rubber dam drumage.

Bile ppeared t the wound for time but this leak was of short duration ind the could then healed promptly. There never as any screen. The patient as greatly releved, not a months.

The patient as greatly releved, od t o months after the operation was apparently well.

Libenthal believes that tubes in the common duct are not to cause necross. Ith scarmer and lead to

the formation of persistent fistula

CLAYTON F AVORES M.D.

CIMOT AME AD

Glass, E. Persistent Pain as Characterietic Farly Symptom in Acute Fancrestitis (Der Daser schners als charakteratuches I rosbyrapton be Pancrestitis screta) Destreie Fisch f Clar 9 3

I acut pascreatitis the symptoms of ileus, perforated gastre and devoteral ulcer perforat appendictis, perifondin of the lesser pel is, and mesenteric thrombons are particularly age to lead t

(also chargoons This is explained by the fact that the rais ganglia of the sympathetic ners, which supplies all the abdominal vacera, re located in the immediate neighborhood of the panceres and are rivitated by the inflammation. The most insportant diagnosities pain is the presence of sensitive transverse zone of resistance in the epigastrium (Koerte) and persistant collects pain.

The early form of treatment orthy of counders than is early operation for wide exposure of the pancreas without splitting of the capsule and specul dramage of the lesser petris

Bace (2)

dramage of the lesser pelvis Bayer (2)

Fisher, A. G. T. Acute Hermorrhagic Pancreatitie
A Case Presenting Certain Unwould Features
Red J. Serg. 9, 3, 21, 79

The occurrence of more than one track of acut hemorrhagic punctualitis in the same patient is rare. The author reports a case is hich second track occurred ten room the after the first On May 5, 922 the patient was operated spor or scute harmorrhage pascreatite presenting the classical symptoms. Dark blood was found in the peritoneal cavity particularly in the right lodger pouch. The leaser peritoneal sac also was full of blood. The pascress was swellen and dark perite, and the body of the gland contained currivasated blood. The committum aboved fast sections.

On March 6, 03, the pattern was again selective the hospital complaining of sharp and stables pain in the exparatrum which was continuous befurcitisted. The skin was cold and classiny, the pattern rapid and of poor volume and the temperature subnormal. Similar features ere: peculiar leader color of the skin sed definite symmotic targe of the play and face. The believem was generally detended, but the control of the skin sed of the skin sed of the skin section was more instead above the best skin section was more instead above the control of the skin sed of the skin sed of the skin sed of the skin section of the skin sed of the skin sed of the skin section of the skin sed of the

On section the abdomand in By a fall of blood but no obvious area, I fat necrois could be seen. The large and small howels are congested, and there as parable the distribution. The meessing at its root and the besser are of the personners of the contraction of the presence of the posterior and of the lever see was ranged opening. The introduction of the foreigner rate this opening was followed by guide of the lever see was followed by guide the presence of the pancers and these rate, as followed by receivery.

HOWARD A MCKNOWY MD

Petruschewskaja, G. F. Chrunic Pancreatitis (Est Frage der chromolom Faskresitin). Festele m Frej \duktyrf pryschr Dold Jabil. 9 3,2,20

The author reports the cases of four patients who came t operation a the series returns and colorly puns in the upper part of the abdomen. Is two cases typhilm with probably the cases 1 one, the condition as preceded by acrds gastro external off in softer by directory. The content of dantatic ferment in the blood was markedly constituted to the content of dantatic ferment in the blood was markedly constituted to the content of dantatic ferment in the blood was markedly constituted to the content of the content of dantatic ferment in the blood was markedly content to the blood was markedly content to the blood of the content of t

Deaver J B A Clinical Study of Pancreatitis

A Cl Mad 923 is

Desiver por to out that lattle or no attempt in made I diagnose the common, midder lessons of the pencreus. The lattle of the panerras to carry on the work ever in the presence of gross lessons resident diagnosis difficult until a evy large portion of the gland has been destroyed or other organs have been strucked.

Routine autopsy findings show that chronx parcreatins is not incommon. I operations on the upper bidonen the head of the pancress is reoverally found definitely indurated.

Because of the close relation of the pancress to the labory ducts and lymphatics and to the lym phatics of the other intra-abdominal organs, the question of pathogenesis is important. The symptoms of pacteagities are existally those associated with the bile passages. Functional tests are of values to obtain migrature or confirmatory evidence. The diagnosis rests on the history and clinical sures

The most important preventive of chronic pan creatils as the early treatment of diseases of the upper belomen William E SHACKLETON M.D.

Bernn A. D. Pancreatic Cyst. Surg. Cl. N. Am. 9 3, m, 857

A man 55 years of age who had had bdommal distress suggesting gastre ulser for twenty fix years developed an abdominal tumor which completely filled the space from the enastorm to below the numbers. He weight decreased by 50 hs and the tumor which appeared cystic, continued t grow. Interference with pancreate function was noted

The X my examination was negative. Under green insurables the abdonen was opened by a long midline mension. A large thick willed cyst of pancratic origin was reposed. The stonach had been pushed up in the large lovel down. The abloss of fluid were removed. As an timpt take not the cyst was unsuccessful. It was partially packed in the oldering gaute and two rubber drains or meetred. The wound was closed to the drain and at their high of firm come content in was special with the content of the cont

The patient subsequently gained so lia. The table was left in and the interior of the cyst irrigated ith a eak thecture of islone until tonizated the part included in the season of the cyst interior of the season of the cyst included the contract of the cyst included in the cyst included in the cyst in the cyst included in the cyst in the c

over the skin to protect it from the pancreatic fluid

Marcus II Horaet VID

Lindemann, W. J. Pancreatic Cysts (Ueber Pan krencysten). Assay Cher Arch. 9. 11, 4.3

Priorestic cysts re among the comparit vely are supract conditions. Since the first case operated spon in the year 86 by Le Denia, more that one case have been reported. On the beaus of Noert classification, the a thor differentiates () true cysts acidizing () recention cysts, (b) hemorrhus cysts, and (c) prodiferating neoplasms cv. t deno case, cysts epithelomanta, and () felse cy to consisting of enapsulated collections of fluid in the beaus conscillation or between the par creas d the

pernocean
Ekolopeally traums is the chief core t be
considered
Typinn is of great diagnosis: significare but the diagnosis is difficult. The treatment
is solely such The possibility of radical turps
too is impact. The possibility of radical turps
too is fine to the cast is opered and
solved to the bodomisal wall According t the
interest to the bodomisal wall According t the
persisten is as follow opens; if the 'quarted' of
operations is as follow opens; if the 'quarted' of

4 to 8 per cent, entire removal of the cyst 18 to 2 per cent partial recovard to the cyst 44 to 55 per cent. The author reports the case of a 33 year-old man who had had cardiac drease for the pest seven-tem years, and for the past ten years had noticed enlargement of his abdonem. Two years had noticed enlargement of his abdonem. Two years before he consulted the author he austained an injury in en autoencoble accudent which was folio ed by severe pain in the abdonem, weakness, low of conscious neess, the comming of fresh blood, and the appearance of blood in the stools. Later a lurge turnor developed in the abdonem with fever. Recovery was also.

Upon the patient entrance into the hospital he as suffering with cardiac failure, steeous and unificiency of the mitral valve and stenois of the ortic val e. In the abdomen particularly in the left hover quadrant was large clustic, somewhat meaning the continuous and the state of the properties of t

with necroti masses on the inner sade. At the end of tw months the patient was discharged with a fixt in which secreted foul smelling fluid. One and a half years later his general conduction was good but the fixtule was still resent.

The was a case of beingn true poncreatic cost complicated by hemorrhage Scharm (Z)

Schols, T., and Ffeiffer F Roentgenologic Diagnoda of Carcinoma of the Tail of the Pancress J. Am. M. 622 0 1 12222, 75

The clinical picture in cases if carcinoma of the tail of the pancreas is so ill defined that a correct clinical diagnosis is made rarely. If ever

In the t caucs reported by the thors the roentgen ray findings were so characteristic of gastric malignings that definite diagnosis of carcinoma of the stomach peared partified even though the clinical findings were not very typical

of gastne lessos. Roesteen are extunuation reveals permanent regular outline defect in the middle portion of the greater curvature of the stomach, which is tender on deep pressure. Such an outline defect though usually sometimes be recognized as due to carcinoma of the tot of the pancreas if the rootingte indiging are interpreted with proper consideration of the chaical aspects. I the case. The main differential disgnostic feature in such instances is an obvious lick of agreement bet een the roentigen chairman feature in an analysis of the defendence of the chaical manifestations, the latter above og a striking lack of durect gastne; y imptoms

I the authors ceses the only clinical symptoms were diarrhers and an nexplained loss of weight procedure. A closely fitting rubber t be was passed into the hepatic duct and fixed in place by fine chromic catent statch.

As hile continued to drain from the accord for over two months, even after removal of the tube, an operation to close the fistula as done. The fistulous opening was circumcased so that thin collar of skin was left, and the sinus was freed from adhenous A gastrotomy was then performed about 31/2 in from the pylorus antenorly and about one-third of the way from the lesser to the greater curvature, and straight needle carrying thick all, was plunged into the stomach through the greater curvature and brought out of the gestrotomy opening. The silk was festened to the fatulous tract near the skin The firtula with the same as dra 1 to the storn ach by traction on the all, and fixed by four or five chromicised catent sutures passed through the outer coats of the stomach Further inversion of the anastomoses was then made and maintained by su ture. The selk was extracted through is place of entrance. The good was closed in its lavers with

robber dam drunage

Beik was of short duration and the ound the leak was of short duration and the ound thea healed promptly. There never as any acterns. The patient as greatly releved, not 0 months after the operation was apparently well.

Libenthal behaves that t bes in the common doct re pt t came necrous with scaring ad lead to the formation of persistent fistula

CLAYTTA T AMORTHM MID

Glass, L. Persistent Pais as Characteristic Early Symptoms in Acut Pascrestitis (Der Dascr schiorra als characteristicus Friedwymptom be Pascrestitis acuta) Desirale Elicle f Chr. 9 1cizva, 13

In acute paccreatitis the symptoms of sless, perforated gather and doodenal neer perforative ppendients, perstonites of the lenser pelva and escentients throubours are particularly pel lead to escentients throubours are particularly pel lead to that the mean gaught of the sympathetic nerve, which that the mean gaught of the sympathetic nerve, which they have been applied all the indemnation and accept are located in the immediate neighborhood of the pasterns and service they are the sympathetic performance of the personnel of sensitive trans and personnel of the personnel of sensitive trans and horizontal coulded have been engagement. (Accert) were described to the personnel of sensitive trans and horizontal coulded have a personnel of the pers

The only form of treatment worthy f comoders too is early operation for wide exposure f the pancreas thout splitting of the capsule and special distange of the lesser pelvis.

Racca (7)

Fisher A. G. T. Acute Hemotringic Pancreatitis
A Case Presenting Certain Unusual Features
Bril J Serg. 9 3 22 79

The occurrence of more than one track I acut hemorrhagic pancreatitis the sam patient is rure. The thor reports cue in loch accordtrack occurred ten months after the first forward, if necessary and notes the degree and amplitude of any resparatory movements by watchag a wappof cotton affixed to the patient a nose or by amenhation

3 Assistant momediately gives an intracoom injection in a convenient en in front of the left elbox beginning with 200 mits f warm physicalogical state. Respert's solution to which to minima of a 1 000 solution of drenalin have been dided at one half samm f adrenalin a often ample and i minima would violently strain the heart the spectom in instant) stopped by compressing the spectom in instant) stopped by compressing the tabe at the first evidence of return of pulsation it is then continued from tim to time only if no constanted by failure of the pulse. If the heart does not respond during the injection of the first too mis of solution the injection is rapidly continued with accessive additions of 17 3 to 9,00 more minima.

the adreash a solution until a response in obtained.

A Anstant No assist the operator in inducing stifficial respiration final by rhythmic compression of the chest, in and brid; he down: He faces it pitents head and uses his hands and the uner add of his elbox of forearms If the compression fails tow, the tidal is he is warned by the anesthetail of whost further delay immediately passes the pittent bead upon the right ade places pace of reury over the mouth, compression pace of the right of the chest of th

sosiths, and, filling his on hungs t the troost produces most the most insuffiction groung time for the aux t escape between insufficions and by pressures over the upper abdomen per centure the surface distinction that the strength of the strength of the particular that the particular

5 The operator carries one hand well up under the left disphragin and with the other hand over the chest, compresses the heart between both hands. From t enty to thirty compressions are made ammite the heart being well compressed and emptied. and quickly released. The efficiency of the massage is shown in the casels of the neck. Often there will be no response until a sufficient quantity of solution has been introduced into the veins to carry the adrenalin through the heart into the coronary arteries. Cardiac massage stimulates the organ and relieves over-distention first emptying the old blood from the heart and then permitting the drenalisol tion to pass to the coronary essels. With the first cardia pulsation the beats usually increase raredly in speed and as trule no further efforts at massage re necessary if the restarations are well maintained. If the heart is large or so dilated situated that effective cardia. massage is impossible the injection of soo mile if flind with a mile of atrong adrenalin int the veins thoragic massage, or direct injection of the heart should be used. For transthorack massage stab : in long is made through the third left intercostal space in to the left of The index finger follows the knife the sternum through the chest wall, partially circles the left entricle and is so booked as hythmically to compress the heart gainst the overlying wall of the To prevent pneumothorax wet gauge is a rapped around the base of the finger and held ove th opening when the finger is a thdraw other measures fail, from 3 to 60 minims of stro g

other measures iail, from 3 to 60 minims of stro g adrenain so of ton may be meeted by a fine long needle directly into the cavity of the left ventracle with care to avoid the internal mammary artery bying 1 mm lateral to the sternum.

Nurse No brings a sterile tray (always held in re diness) which carries a small (unnel attached to

4 ft f soft rubber tubing a suitable connection and needle for intravenous injection scaled a ligature a thimb forceps a dropper reliable solution f adreadin and hypodermic syrings th short and long fine needle 5th supports the

patient a right arm while the needle is being introduced, and aids in the injection

Nurse No brungs the sterile warm salt solution fills the funnel, and sees that the air is expelled from the tubing EDWARD L CORDELL, M D

GYNECOLOGY

UTERUS

Parsamoli O I testinal Uterine Pistulas and Their Treatment (7ee Frage sier Dara-Uterusfistel and farer Behandleng) Gyusche'apija Alancherias 9 1

The author reports case of intentual utertus setula operated upon by hmeel. The condition followed an induced abortion. Intestinal terms future are comparatively rare. It must be assumed that Inflamm tory and supports a processed developing in the perithhoring organs perforate int the attriat, expectally when the uterities teams has

been injured

Operation should be performed as soon as posults as these fisted soon lead to general weakness. In the majority of cases the operation should be performed by the abdomnail route. It is impossible I should not be added to the temperature as the technique must be adapted to the repursement techniques must be adapted to the temperature of the protocolite case. If closure of the defect in set be reserved. I wone cases the perforative opening may be converted by the openitum. Righagyma, (2)

Definals Cancer of the Neck of the Uterus Treated with Radium. Cure Maintained for Prefire Years () published on col de latinus traité par le radiant, godragon numicame dépais dours and Ball 1 mm au de che d. Per 9 3 ks. 15

The author reports case of cancer of the seriof the steems which was of caniflower shape and involved the agua. According to the prigment of three well know a surgeous it was snoperable. Applications of radium were surds in three treatments in a period of air months. The technique is not deempto of all moders practice. Repeated examinations for tacher spars has above no recurrence.

This good result is ascended not alone to the type of cancer but also to the systematic application of the radium which was continued regardless of the intercovernent following the first treatment

In the discussion of this case M red inestioned an analogous case of caseer of the neck of the aterus in which inoperability was received by hypototics; and aphaequent radium freatment was followed by an apparently complet curie for eleven years.

Redount Mark, M D

Navarre Binaco, F. Hysterectomy for Fibronis emata Previously Irradiated (distrectonis) at the Communication of the Communication of the concentry 7 systems 19 3, 21, as do in Sec. gase expair 71.

The author performed hysterectomy in three cases of fibromyoma which had been treated by

bradation. If believes that surpcal treatment is clearly indicated in I least go per cent of all types of fibrons. Irradiation is not as harmless as many patients and some physicians believe since it may come various complications and error death. In the mijority of cases it is blood method of thempretition who startifiers the steries and oranse.

I the three cases reported surpice! I terrection as accessivated because of the complete failure of the irradiation, and the operation was rendered more difficult than usual by the multiple latestimal afficiency due evidently to the effect of the ray

N A Berry

ADMEXAL AND PERI-UTERINE CONDITIONS

Kennedy W. T. Radiography of Closed Fallopian Tubes. Am J. Oast & Greec. 9.3 vi. Aldridge A. II. Insuffiction of the Uterrs and

Fallopina Tubes, Am J. Obs. & Greec. 923, 51

Kin pyr has been fifting the attens and table the a por cent solution of sodium bromals and redographing that part of the gential tract which receive the field. The presumes and the quantity kitch passed nat the ca kiy ha e been soled. Hit has a standard to be a secred at the attent by patent fathms even though the passage bet ern contains no sodium brownia. If the opposition of the topic does not specificate the contains to so sodium brownia. If the opposition of the topic does not specific than the contains of the uterus, or the tube has been removed. Kennedy reposit easy cases in their reconstructions of the tube has been removed. Kennedy reposit casy cases in their reconstructions are the contained to the substantial contains the following conchanges or it, rectilizencement.

should not be made in any case in which there we evidence of bleeding a TI degree of flexion of the body of the steries are be determined if the mountain of the steries is

2 'Il degree of helicin of the port of the sixter can be determined if the position of the uteres is known
3. The internal os cun rilistand pressure of

roo mm Hg in the cervical casel—thout allowing the passage of the solution sat the oferine carriy 4. While personting the sodium brounds existion t—pass through their casel—many athen on overcome—pressure of soo man Hg and expel they contests in either direction.

3 Of the tubes examined, 50 8 per cent were occluded t the athress and 60 per cent occlosed t the fimbria. Of the tubes casting shadow the inthing ppeared in 6 per cent and did not appear.

in 38 8 per cent

6 The surgeon is able t determine the following points before opening the abdoraces () the length, breadth, position and direction of the canal of any tube estimg a shadow (s) the exact auto of the occity son, whether at the finishe or on the atthuna, (s) whether a tube open at its inthuna and closed at the finitum in empty and simply clubbed or filled with finish (d) whether in operation to overcome the obstruction and thus remove the sternity might be done with some chance of success when I least one stimms is open, or would be almost uncless when both atthun set closed

ADDRESS reaches the following conclusions on the bases of 600 cases

The Rubin method to determine tubal patency

a a simple and safe diagnostic procedure 2 If the details in the technique are carefully controlled a definite opinion can be formed as t the condition of the tubes in approximately 85 per cut of the cases examined.

3 Patients should not be examined when near a menstrual period or in the presence of acute pelvic inflammatory disease or serious heart disease

4 Insuffiction is indicated in all cases of territy is which definite diagnosis of the cause cannot be made by bimanual pelvic examination.

5 Conditions amounted with menstruction, uter

me displacements, and overan and items tumors may cause partial or complete tubal obstruction and yet not be apparent on inspection to operation 6. The method is almost entirely diagnostic Preguancy follows insufficient in only very small percentage of cases (nme cases)

7 Operative procedures which are done t open the tubes or to keep them open in cases in which both tubes have been involved in an inflammatory process are very often unsuccessful.

EDWARD L CORNELL, M D

Donald A. The Clinical Aspects of Adenomyomata of the Female Petvic Organs Proc Rey Soc Hal Load 9 3 xvi Sect Obst & Gynzo 8

denon-constone growthe may develop in the derivary, round biguant tithe, ovary or rectovariant space. They are frequently associated with tarry fras of the ovary. The author operated upon as treat cases in one year. The their symptoms errors of the case in one year. The their symptoms errors of the case in one year. The their symptoms errors of the case in one year in the rectum and year of the case in the case in the rectum and the case in the c

Tarry cyas of on my hock owners were found associated in the formarpoint in developed the states case. In twelve my present of developed the states case. In twelve my performance the mass being dissected free from the rectum and the power of Doughs in all I the case the operation was sense that difficult. There was one death, that of a pittern whose parks was very waight militard with the growth Moreoscopic ownderner I denote the provided of the provided of the states of the provided of the control of the states of

EXTERNAL OXBITALIA

O Connor V J. Primary Carcinoma of the Feznale Urethra. Report of a Case Treated by Dia thermy. Urel b Cutex Rev. 933, xxvu, 475

Primary carcinoms of the urethra is very rare.
The author was able to find only ninety nine cases reported in the literature. Fifty cases reported as of this type he rejected because the lesson belonged.

to the group of vulvo-vaginal tumors

Frunary accusions of the urethra develops most frequently in the mucoas and is of the sepamonscell type and highly makignant. It is an epitheliona and must not be confused with carcinoma of the vulva and vagnasi will. It extends by a yof the lymphatics up the inner side of the puber minus and into the inguinal nodes. Usually it is preceded by chronic inflammation or polypus.

U in recently the treatment has been surgoot removal of the urethra together with the cancer bearing areas, but as a rule this leads to structural mutulation and functional derangement and has not been justified by the end-results. Emission supplies mented by radium treatment has been more satisfactory. In the author's case distlementy or massive electrooxyglotion was employed, but the growth was too extensive for cure as extensive metric proof to the distinct of the proof of the satisfactory of the satisfactory to the satisfactory of the s

MISCELLANEOUS

Haug, E. and Hendorfer K. Postoperative Adhesions Following Gynecological Laparotomics (Ucbr. postoperation Adhesiones and gynac kologochem Laparotomics). *Geneleus sed* II chacker. 9 3, lix 463.

In the Garrie clime Naegeli found that following abdominal operations diseases could be dem in strated in 36 per cent of the total number of cases strated in 36 per cent of the total number of cases strated in the strategy of the control of the c

this cavity
The authors tabulat the findings with regard to
adhesions in \$15\$ cases in which laparotomy was
performed for the second time. The first laparotomy
was performed to the second time.

I second time to the first time, \$1\$ per cent consider
tree from postoperative adhesions, and off those first
ourstand upon clause here only to p per cent remained

free
The distribution of the adhesions was as follows
abdominal wall, so cases (51 per cent) omenium,
8 cases (54 4 per cent) genitalia, 742 cases (60 4

per cent) sigmoid, forty cases (74 per cent) parts of intistines other than sigmoid, 107 cases (45 per cent). It is an interesting fact that following vaginal operations in adhesions were demonstra-

ble in 33.3 per cent of the cases. The cases of the formation of adhesions before operation are the same as those of postoperature statescoas, is inflammation processes, mechanical and chemical injury of the peritoneum, and the intriation of an increased flow of blood in the peritoneal cavity. Operation in y be followed by infection, failure of peritonication of the ligated stumps,

serious difects, draininge, etc. The alice of solides the prevention of postoperation adhesions is not ery great.

Adhesions may undergo resolution spontaneousl Preprincy may came their disappearance. According t. Payr they came complications in only from to to a ner cent of the cases and necessitat. operation 1 only 3 5 per cent. Complaints due to adhenous occurred in 9 6 per cent of the author cases. The onset may be acute—ith adhenouslem,

or chronic

For an exact diagnosis a careful pelvic and abdominal examination is necessary. Paramopertisneum is of great assistance. The treatment is difeuilt, Operation must be performed carefully. The
use of sodrum chloride sol tion or laminol can
not prevent adhesions. Poundly the earth stars.

htton of peristalise by enemata cuthratics and intra sensor supertions of hypothysis may be of lise. The suction massage of Krob and the magnetreatment of F 3x are sected as bring too severe Datthermy and the external application of best las a F orable effect. Occasionally diagnostic procumpentizarsays is created. The fault report is

Liparotomy but the cases must be carefully selected Taxpoon, (2)

OBSTETRICS

PREGRANCY AND ITS COMPLICATIONS

Stem, I F., and Arena, R. A. Roentgenograms of the Fetal Skeleton se Poutive Sian of Pres manes J Am M fu o t lyon a

I contradiction t prevailing scepticism regard ing the practical sine of the roenteen ray examina tion of the fetal skeleton, the authors prese t the following conclusions

The \ ray is the deciding factor in the differential diagnosis between pregnancy and the abdominal plargements, and cases of pregnancy ill reveal definitely the position and presentation of the fetus

Before quickening the demonstration of the fetal skeleton is the only positive sign of pregnancy

3 By pneumoperatoneum, the graved t rus can be show quite typically o the film during the early months of pregnancy

The earliest roentgenogram of fetal skeleton was obtained three weeks before quickening prob bly between the third and fourth months if the restation

The athors caution against the estim tion of the are od are of the fetus from the shadow in the film The unstable position of the fetus and the distances

of the parts from the film may lead t erroneous condensors In case of breech presentation in which the romtem plate rave apparent evidence of hydroce

phalus normal child was dehvered From the sixth mouth to term the results are con

stantly saturfactory The authors suggest the use of the becomes t condense the small, gue f tal shadow.
Their technique is carefully explained and t ble for anous exposures is given

C Frank Kyrs M D

Hannah, C. R. Werght During Pregnancy Ter

Stele J 11 9 3 111, 14 From his study the uthor concludes that in the cases of ome whose weight as near the tandard at the beginning of gestatio the gain f duction should not be more than Ibs Women bose eight increase is over the reproducti of 1 lbs manifest pre eclamptic symptoms such besdache cedema, increased blood pressure,

Increased gain aggravates such conditions as heart lenots, hypertension, renal disturbance epilepsy and psychoses

The control of the weight in pregnancy shortens the duration of labor and is an excellent treatment for oterine forrtin HARRY W FIRE, M D

Fibroid Turnors Complicating Presnancy and Their Treatment. Am J Obs. 5 G 1 C 0 3 61

The presence of a terme myoma or fibromyoma during pregnancy calls for the most careful observadence of local necross diagnosed from the presence of feve nd en i creased hite ell count operation should be considered either a myomectomy or a hysterectomy Operation should be considered lao when a tumor is attnated in the lower terms segment and may possibly interfere ith del ery because of is failure to rise out I the pelvis during the last two weeks before labor or in the early tages of labor Exploratory operation is alw y possible d frequently myo-mectomy ith satisfactory suture of the wound in the uterus may be done without causing abort n if the patient is deeply aniesthetized. Even if bor tion occurs, the uterus is left for a possible future pregnancy

terine myoms or fibromyoms undergoes degeneration during the prerperium, as evidenced b pain fever continuous lochia, either bright or foul and sometimes by evidences of peritoritis, an unlocat ry operation hould not be long delayed It may be possible to enucleat the tumor through the aging if t presents a the lower tempe segment If it show evidences of po taneous expulsion, this process may be hastened by the administration of rgot t regular intervals

I omeetom may be undertaken after the birth of one or more children thout fear of rupture of the scar in bacquent pregnancy provided the sca does not becom infected. The induction of bortion during the early months of pregnancy should not be regarded with for as infection or trauma may damage the tumor teems t such degree that co valescence may be markedly pro tracted and disturbed. If complications do not develop t may be better to wait viability of the f tus and then do cassarean section with or without In som cases, however total

ablation f the terms in the early months may be McDonald E The Processes of Tubal Pregnancy Im J Obst & Gymer 93 vi, 7

EDWARD L CONVELL M D

The f llowing classification of the processes in tubal pregnancy is suggested () atramural extra vassation () fimbrual rupture tubal abortion and (3) transperitoneal rupture tubal rupture. It is hoped that this new terminology ill prov more descriptive of the pathologic processes. Furthful rupture may occur through the ostrum or through a break in the tiernes at the ortion and outside of the mucosal orifice

Decesiary

In transpersioneal rupture t hal rupture the period of fatram ral extras sation is alight or bsent. Cases in which it is slight are no doubt cases of profuse intraperitoneal hymorrhage without

preliminary to reptoms.

In a study of Look case report, it was found that here the mortality of 10 I rupture and thin them the mortality of 10 I rupture and the cortain of complier was 17 per cent as that of 1 hal abortion was 16 per cent. I 6 506 cases in series the total mortality, after operation upon all forms of tabul perguacy was 70 per cent. In 2 cop case reports which the focation I the time from it as said 1 be the outer than 0 ampular end of the tube in 25 per cent. In the middle them in 15 per cent, and the uterine end in few. This includes each deaths after cooratio

ment course of t hal pregnancy is later muscular embedding of the orum with dissection of the mencular costs of the t be and destruction of the trasue by the un ding trophoblast. The first common crident which precides the first ymptoms of tubal pregnancy is intramural extra asation of blood In t thirds of the cases fanbeld rupt re then follows, and m one third trans pentoneal runture. I unbels! syntage often accurathrough the disaction of the muscula coats to their juncture with the mucous t the fimbria, the kers orthage dreck tempe at the aid of the t be through break I the thene I other cases the tabe home is destroyed by the invading trophoble t the mucous and its boundaries below penetrated and the harmon thage pass g through the macoul orance at the outnos. A tubal harm toma freence il forms out side the tube himen and w thin the muscular co to of the t he but in some cases the and may be destroyed by the 1 riding trophoblast and become incorporated int bematoma. Int amural strasation usually came the de the of the fetus

Transportional rupture may occur as first accide to about perceduag niramural extra sation, adcases of sudden yraptom and severe hamnerhage.

may be followed by rupture or, soon
Intram ral stra as too is the use of the first
pa a in tubal pregnutor, the milder obeks pains
high record that over non-crossed in the names.

high percede the set ere print caused by the pursure of blood int the persioned (a. 1). With the dute tool. Inch occurs in t. bul pregnancy the finibility of the t. be is often retracted to expailed into the t. be on account of the tret by

of the anacosa and the noer coat. This explains why the anatomical relations of tubul reprinte are often not recognized. Fowars L. Con. e.e., M.D.

LABOR AND ITS COMPLICATIONS

Ottemberg, R. The Filology of Felampela J Am M Am 9 3 Inch, 193

The author cites the recent contribution of M. Quarre, the findings of Dienst and his os earlier observations in support of the assumption that there is some connection bet een the toximum of

pregnancy and blood incompatibilities between the mother and child. Briefly the etological factor is the accelerated transform of incompatible blood between roother od child as the result of a fortunous opening in the placents between the triculations.

and series of a wamp McCanne found that season accurred attent and one bif times now frequently who mattern and not tall blood were to conquisible than when they were in the name no rivitumation group their joing control the cases of lowest occurred in the group characterized by terrigiditation better the fetal and maternal than the material control of the cases of lowest own that the control of the cases of lowest own the case of the cases of

blood

nes

In itso cases Denest is jected methylene blee with ery ship till tracked placeata immediately ter delivery. I thirty two of the cases (so per cent) considerable amount of the methylene blee spreampt

in the same which Denis Interpreted is indicate communication better enth festal and maternal circulations. Frammation of the blood of its of these womes aboved that it is early one at against and or laked the blood of the child. I filters for these cases there was no taxen—and no neighbor blood the state of the same fewriter placeaux). I man of the tennity four the time above the day. I make of the tennity four the time above the day. I make of the tennity four the times above the day. I have not the tennity four the times above the day. I have the the nine statement of the time the was althourhouse the same affection.

The same proces might occur also in the child if it maternal blood entered the fital curval ison. Of the haldren of ectamptic mothers so per cert dend the legions present are essentially the same as

those in the roother—general thrombous.

The thor presents experimental and chosel e advace t explain the production of multiple (generalized) hyanos thrombs in the hyer and kill

I conclusion, Ottenberg states that in the precace of wirming states of paranut, direct examation of the mothe is blood might reveal incroscope. I mps of agglutanated red cells or phagocytous of red cells, and that possibly several unexplained few ses of the newlorn espectifly pushedre and creatin harmorrhique diseases, are due t accidental placent of transfersion of incrompatible blood placent of transfersion of incrompatible blood.

C FREE JONES, M.D.

Anspach B V. Gillespie W. Macon, W. D. Bowen, W. 5 and Others. The Treatment of Ectampola. A 5ymposium. Therep. Get. 9.1-1. 33313-417.

I reply t questionairs sent out by the editors of the I branganic General Aspach stated that is prepartion echampias elso. I then a broad the other particular than a bould be simulated by sector of between the same about the simulated by sector of between the same about the same and the sam

The bowels should be kept open by repeated purping with saturated solution of epsom salts or

if necessary croton oil or elaterium in the back of the tongue If purgation is unsuccessful, high ch cenne and salts enema followed by repeated co-

one irrustions is indicated

The activity of the kidneys should be stimulated by giving water. If the water is taken by mouth, have doses of sodium citrate should be administered Amount advised against the distinutration of sait solution. He prefers plain sterile water or if amdons m present, a 1 per cent soda sol tion given intra venously or by enterociysus. If the blood pressure and pulse are low digitalia or sparteine may be of value. If the blood pressure is high, caffeine may be m on with good results. If the blood pressure is above 180 and the pulse pressure proportionate, renesertion is indicated. The amount of blood t. be removed depends upon the effect on the blood pres sure as well as the pulse pressure Veratrum inde s of value in resulating the pulse

The convulsions should be controlled by morphine gven hypodermically and chloral and bromides given by the bowel. For angesthesia, gas and oxy gen

are best

In regard to the delivery of the patient Anapach stated that if it becomes evident that the efforts t dimination will not be sufficiently successful towarrant further delay delt ery must be effected in the manner which will be most rapid in the individual case and at the same time least dangerous, ben, in a primipara, the head is in the pelvis and

the cervix is soft and offers no bar t rapid dilat tion, labor may be induced by dilutation the the corners bag and terminated by forceps When the as soon as the dilatation is complete cervix is long and rigid) and delivery through the natural channel promuses t be difficult bedominal Caracrean section should be undertaken t no

In cases of eclampana arming during labor elumino tion should be increased and completio of the labor

hastened by any safe procedure

la postpartum eclampaia measures to increase elmanmation should be donted. This is the more dangerous type

Acconchement force is more dangerous and more deficult for both the mother and the child than

Commercial section

The most valuable drug is morphise Gittererie dynaed much more liberal use of teratrum viride or veratrone. If there is immediat danger of a con ulston he pushes the intramuscular administratio of the drug in 5 to 50 minim doses until arguing respiration and copings belows om t mg occur and there is a soft compressible pulse. H turely raduces labor relying on elimination induced by the use of cratrone and fluids. Eclampus dur mg labor he treats in the same w y except that he act stage by means of forceps Postpartum eclampsia a also treated by veratrum. If does not believe acconchement force or the routine diministration of chloroform but sometimes uses thus drug in

the second stage. As he is of the opinion that mor

phine prevents elimination, be uses versitrum viride instead

Macov's treatment and counton coincides a th that of Anspech

BLAND outlined the same treatment as that of Ammach and Macon, except for the use of chloro form for convulsions and versirum vinde for high blood pressure ALTHAN advised the limiting of morphine to a

single dose of arr and the lowerness of the blood pressure with eratrum vinde. He uses either no anzetheti or nitrous oude vigen and ether

R 5 Cent M D

Dunn, R. H. The Report of a Case of Runture of th Uterus berg to H M ath 0 3. L 51

In the case reported and taneous runture of the terns occurred during the last month of seen d pregnancy. The national first labor was terminated by caratrean section after an attempt at operatio The puerperium following the section was uneventful

The first symptom i rupture occurred boot three weeks previous t delivery by lanarotomy appeare the the extrusion of the fetus was very along At the time of operation the findness indicated that the rupture had taken place through the anterior uterine wall at the sit f the ld caracrean scar It as interesting t note that the placents was ttached at that area d also slong the pterior bdominal wall. The fetus, which weighed 8 lbs was dead and macerated Supravaginal hysteree tomy was followed by slow but complete recovery

R S Caoy M D

PURPERIUM AND ITS COMPLICATIONS

Veren, Michon, and Sedalisan Vaccinotherapy in Puerperal Infection (Contribution à l'étude de la vaccmothérapse de l'infection poerpérale) Lyan chw 93 XX

The uthors ha tested accine therapy in operperal afectso for period of two years in the Chante Hospital, Paris The first tests were made with stock vaccines, but more ecently autogenous ve ones ha been used

The experience of these to years has led to the conclusion that accinotherapy requires further testing by the employment of larger and more prolonged doses and different routes of introducing the such as the cutaneous and intra enous BCC1

Stock vaccines and utogenous vaccines gi dif ferent results. The stock actine is particularly pplicable t the acut phase of the infection. It cts by pro oking general eaction, and in certain cuses has an influence on the thermal curve. In som cases t does not bring bout recovery and when ther treatments fail t also fails. Its favor ble ffects are limited to cases of slight or medium seventy I due tits d inflammation of the contissue of the broad ligament t reduces the pun It is not without a certain gra-ty-however

In transperitoneal rupture, tubal rupture, the period of miramural extravasation is slight or absent. Cases in which it is slight are no doubt cases of profuse intraperitoneal hamorrhage without

preliminary symptoms

In a study of 1,005 case reports it was found that when the mortality of that impliers and that abortion was given separately the mortality of that or update was 1,000 cases in serior that of that abortion was 16 per cent. It 6,000 cases in serior the total mortality after operation upon all forms of tabel prepancy as 7 or per cent. In 1000 cases reports a said t be the outer thend or ampular end of the tube in 7 per cent, the middle that in 2 per cent, and the upon the major per cent, and the utternee end in few. This includes only deaths after operations.

The usual course of tubal pregnancy is lates muscular embedding of the ovum with dissection of the muscular coats of the tube and destruction of the tissue by the mysding trophoblast. The first common accident, high precedes the first symptoms of tubal pregnancy is intransgral extra asytion of blood I t thirds of the cases, firsbrisi rupture then follows, and in one third transpentonesi rupture Funbrui rupture often occurs through the dissection of the muscula costs to their functure w th the process at the firebra, the bemorrhage ducharging at the end of the t be through break in the timue I other cases the tube lumen a destroyed by the! ading tropboblast the mocosa and its boundaries being penetrated and the hemor range passing through the mocosal onfice t the outsum. A t bal harmatoma (requestly forms out ands the t be lumen and Ithin the tauscular coats of the tube, but in some cases the canal may be destroyed by the invading tropboblest and become incorporated into hematoma Intramural extra assistion usually causes the death of the fetus Transpentopes rinxure may occur as first accident without preceding intramural extravaution, and cases of sudden imptons and severe hemorrhage may be followed by rupture very soon

Intramural extra assitio is the cause I the first pain in t bal pregnancy—the milder coboky pains which precede the severe pain caused by the passage

of blood int the pentoperal cavity

With the distension linch occurs in table pregnancy the fimbra of the tube is often retracted or engulied this the tube on account of the stretching of the mucoga and the inner coat. This explains why the natomical relations of tubul repture are often not recognized. Lawaun L. Conveirs, M.D.

LABOR AND ITS COMPLICATIONS

Ottenberg, R. The Etiology of Eciampele J Am V Asr 9 j hom 195

The author cites the recent contribution of M Quarter the findings of Dennt, and his own aerber observations in support of the assumption that there is some connection between the tonemia of pregnancy and blood mecospatibilities between the mother and child. Briefly the etuological factor as the accidental transfusion of incompatible blood between mother and child as the result of fortunous

optining is the placents between the two curvaturous. I has sense of 50 women licely-mris found that toursens occurred sarkers and one half times soot requestly when naternal and fetal blood were a compatible than when they were us the same us compatible than when they were us the same us compatible than when they were us the same us compatible than when they were us the same of of toursens occurred in the group of that carrierated by intergraphicalisation between the fetal and maternal intergraphicalisation between the fetal and maternal

In the cases Dients injected methylene blue with very slight pressure into the suchlacal streety or vue of the still trached placents; numedately after dehery. In thirty-t of the cases (roper cont) considerable amount of the methylene blue posserie in the same, which Demai Interpreted as Indocating a communication better the fetal and natical account of the second of the second of 115 of these women showed that as twenty-four it giftunted or laked the blood of the third. In finers of these cases there was no tournel and no methylene the second of the second of the control of the latest control of the second of the second of the latest control of the second of the second of the latest control of the second of the second of the the second of the second of the second of the the showed the second of the the showed the second of th

The same process might occur iso in the child if the maternal blood entered the fetal circulation. Of the children of eclamptic mothers go per coat deand the infoors present are essentially the same sethose in the mother-general thrombous

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In conclusion Ottoberg states that is the perence of warmin sums of loureaux, a direct examintion of the mother blood rapits reveal normonychamps of gelintanted red cells or phasperties of red cells, and that possibly several morphisms drasars of the newborn expectally numbers and certain harmorizage diamens, are the blood phase of the cells of the cells of the cells of phase of the cells of the other cells of the cells of the cells of the cells of the other cells of the cell

Anapack, B. M. Gillerpia, W., Miscon, W. D., Bowert, W. S. and Others. The Trevinnest of Februaris—A Symposium. Therap Get. 923, 1, 2524, 437.

I reply t questionnaire sent out by the edition of the Mearphois Gentis, Asepark stated that is repartium relamptat diministion should be abtuned before an attempt is made; tempty the sterm. The situ aboud he stimulated by means of hot reporbath or hot pack and fluids forced substances, arise enough by enterodyna, or by gavage her the patient cannot be made to resilior. The next of

drugs to promot disphoress as contra indicated.
The box classhould be kept open by repeated purguag with a saturated solution of epsom salts or

GENITO-URINARY SURGERY

ADRENAL, KIDNEY AND URETER

Edois Demonstration of Patient in Whom One Suprarmed Gaind Was Extirpated Because of Suprarseal Arterial Gangrane (Demonstration eines Patienten, dem wegen Gangraena arteriotica suprarealis di Nebennero extirpert urde) Verhadi d'Gardick f Ch. Moscow 9

The left represent gland was extrepated ecording to the method of Oppel because of the ages of beginning gangrees of the four extremutes. The specimes aboved hypertrophy of all the layers inmediately after the operation, the pulsation in the blood eachs, which prevously had been entirely absent, reappeared. The pain then ceased and the gangreenous ulcers besided. A month later lowever excrucating pain began again and the pulsations became weaker.

In the electronic in such Fedoroff Spatharn, Resisted the Season took part, it as a emphasize that the theory of the resistance of the blood following hypertrophy of this consecuence upon which (popels operation is based, has not been proved. It some cases the impuritual glad attopher. The uthor replied that he did not entiry agree with (popel to the bleved that in sever case, in which nothing else will help this operation is resisted.

Bench, P. S. Sallvary Ures and the Mercury Combuling Power of Saliva. A New Ind. Simple Index of Renal Insufficiency. Med. Cl., V. Am. 9.3. II., 3.

There a necressing recognition of the fact that the determination of blood ures gives practically. If the information of clinical value desired that might be obtained from estimations of total nitrogen on protein nitrogen, one cod and creatinn. The traination of the blood ures by the urease method of Manhall as modified by \(^1\) an Sh\(^1\) although companitively simple procedure if certain biboratory facilities are available as rather compilated and although of the use of the general practitioner.

It is know that me as usually difficultie and there as distributed prominant Is, equally in all the barys (the body. Salvax was found the crystalble and asselful unductor to drugs retention and a premous communication Alfrich and II not bounded out the unituate assentance between the reasonations of time combined urea and ammonia autoperation. If the combined urea and ammonia autoperation, if the combined urea and ammonia autoperation, if the combined urea and ammonia autoperation. If the combined promise is the ammonia in the adverse corner from urea in the process of the breaking does by one liberten in the Frances of the Bulane salvar. Therefore the ammonia should be considered part of the urea, and the

combined amount of ammonia nitrogen and ures nitrogen should be compdered as computable with the blood ures nitrogen

In the saliva of poimal persons, from 5 to 3 mm of combined uses and ammonds introgen to a control or combined uses and ammonds introgen to a control or combined uses of combined uses of Europe observations have caused the author to consider from 6 to 6 mm of combined uses and ammonds astrogen as the errage amount for persons subout uses treated to a dark combined uses and ammonds mirrogen of the saliva closely prorefunates that of the uses automation of the saliva closely prorefunates that of the uses automatic dark uses a fine saliva closely prorefunates that of the uses automatic of the blood of the saliva closely prorefunates that of the uses automatic of the blood of the saliva closely prorefunates that of the uses automatic of the blood of the saliva closely prorefunates that of the uses automatic of the saliva closely prorefunates that of the uses automatic of the saliva closely.

In cases of ures retention, the combined ures and ammonis nitroge m the salva all ye increases with an increase in the blood ures nitrogen

The drantage of estimations of the salivary ures by the urease method is cheff the availability of saliva. Blood is not thrays obtainable especially in the cases of children and obsee persons in whom empuncture is difficult. The value of salivary urea determinations has become still greater with the finding of a more rapid and more susple method to the contract of the contract to the contract of the contract of

In series of pproximately 1,000 determinations on the salva obtained from approximately 500 persons whose blood area content varied from 1,5 mm for each 100 cm, 1 was noted that the mercury combining power of salvas increased with an increase in the blood orea and salvary area as mercury combining power of salvas may be used as an index fibriod uras concentration.

With the casily obtainable reagents the estimation of the mercury combining power of saliva may be completed in five minutes. Thus a simple practical method is available a bereby an index of the blood urea can be bitained by any practitioner auces it necessitates only the most simple pagarates.

Bishhords of mercury in access in the presence is autorated sodium carbonate pare reddata brown preceptata mercuric oxychlorde. Not until there is bishhords in mercury in crees at this precipitate obtained. A deepening canary yellow color is noted as the present of the control of the contro

depend almost entirely on the blood-area concentration Findings from experiments with standard solutions of ures, wric cid, etc ere in accord with the data obtained from the salive in series of normal persons and persons with uras retention

The mouth is first washed out with half glass of water and small piece of paraffin may be med t speculate salvars flow T specimens of about 8 cm each are collected. This collection may be made in a very low minutes, and generally without any inconvenience to the patient. The first or preluminary specimen, high removes food particles

or excess or epithelial debris is discarded or used as a check on the second specimen which is used for titration. The first and second specimens may show a slight difference in the combining power (usually very slatht increase in the first specimen. I to

cm for each (com mahva)

3 cm for each 5 cm mayer, Five cube centimeters of saliva are measured first by means of a graduated pipette and then tstrated with a 5 per cent solution of mercuric chloride. For the latter as rule, a graduated ocm ratett is pufficient. The addition of behlande

of mercury is continued until one drop of the mix tore dded to a drop of saturated sodium carbonat on a norrelain plate causes the prompt appearance of a definite reddish-brow tinge. Unless the brown color develops within about three seconds, thus should not be considered the end point and drop or to more of the bachlonde should be dided. The result may be expressed in terms of the umber of cubic centimeters. I bichloude of mercury med to obtain this end point. For the sake of comparative uniformity however the results are reported terms of cubic centimeters of bichloride of mercury

for each oo om of saliva. This value is called the sahvary urea index

It is unnecessary t filter the sperimens because the enthelial debris has certain small mercury combining power which practically compensates for the slight quantitative error in the bulk obtained by is presence Unfiltered, filtered, and somer natant specimens of the same saliva give practically the same result

For no come of saliva the combining power in normal persons is between so and so (that is 30 t so e.cm of 5 per cent solution f bichloride of mercury) For 5 cm of saliva it as between 5 and # 5 (that m 5 to 5 cm of per cent som tron of bachloride of mercury). The upper limit of the range as generally obtained in the presence of the upper limit of normal blood area concentration which was taken as 40 mgm for each oo em of blood When retention occurs, the mercury combin ing power rises quantitatively and at blood ures concentration of about 3 5 mgm for each oo cm the mercury combining power is about 270 for each

co com of salva or 35 for each 5 cm of salv Cases in hospitals may be followed daily with occasional checks on the blood-ures. The method may be used routinely before blood urea estimations are made, the inconvenience of unnecessary vem-

punctures being thus avoided. When blood was estimations re impossible, it may be employed as an adjunct to urmalysis and the phenological phthalem test, since the specimens may be collected t the bedside and analyzed in the physician's office It may be used also as an office test to detect cases f retention P S Hoor MD

Joseph. E. Difficulties in Estimating Surgical Insufficiency of the Kidney (Schwerzkeres is der Beurteilung characteristic Activationis) 47 Fersamul & dentack Genellack | Clear 121

As trule surgical kidney disease is unditeral. In bilateral disease it may be difficult to determine which kidney is most severely affected and hether the patient will be able t withstend meration Cryoscorac examination shows that the labor pursochyma is greatly reduced and must not be furthe reduced by operation. Cases are known. however in which the kidney was meremfully removed in sorte of an imfa orable on occorse regular tion of the blood. In other cases fatal urgues followed abort thyl chloride narrous or X-rayms of

the carcinomatons bladder In bilateral cases Joseph pays less attention to the results of functional tests than to the anatomical findings of bilateral pyclography. The latter he regards as of great importance in cases of bilateral resal calculus, py operatrous on one side and severe py one phritis on the other and advanced tubercu-losss of one side and beginning infection on the other The pyelogram will show the extent of the destree It ill not reveal the armylold on the other ade but this is demonstrated by the high albumus content of the ureteral urine

In the cases of old persons good functional test does not al.) exclude the possibility of post operator unemma. Thus is especially true in cases requiring prostatectomy If prostatectomy a undertaken t all in the presence of high blood pressure and advanced arterioscierosis, it should be done to two stages STREET, CZ)

Mascarenhae, O. Free Grafting of Omeastum in Case of Pericolitis Nephrectomy for Hornhas been a remeatrix representative and the kidney Repeated Crasse of Americ Curel by Uniteral Catheteriantsen (Oraf jupidaje hibre cher une melatic presentat de la percessa el planetomic pour rais mobile, craes d'aume répresentation pour rais mobile, craes d'aume répresentation de la company de tées guines par le cathétérame urétéral) Bull et miss Sec de chir de Per 93 phx

The case reported is of interest to the surgeon because the result of free transplantation of omentum as been ed t second operation per formed four years later. It is of interest to the urologist because series of attacks of anuria ere cured by ureteral catheterustion

In the anamness severe typhold fever and tuber culous of the lungs were mentioned. At the first laparotomy performed in 9 8 because of the symptoms of subscute pentomins, the ascending and transverse colon are found bound closely together by strong adhenous due to persolutia at their juncture. By sharp separation, a large surface of the bored was demoded. Free grafting of concentum was then door. The operation was followed by several juntal cross of anima. These were curred tempo rank by ureteral catheteriastion. In 9 8 the morable and scientic right kidney was removed at another operation performed in 10 to because of painful intestinal cross-s of melena altern ting and obstrates constipation, the seconding and immerize colon were found entirely normal. But the production of the control of the color of the participation of the control of the color of the mod as evitena stenous was found, though models are the normal color of the color of the mod as evitena stenous was found, though

Set month later several rend cross accomputed by sunctions of urem) necessitated renewed uret ral cathetenzation. The last cathetenzation was followed by the spontaneous expalsion of three phosphatic stones which repeated X ray examina book had failed to reveal. R noting Max. M.D.

Israel, A Studies of th Contractility of the Renal Petris and the Ureter (Versuche nebs. the Contractinated des Normbeckens and des Harnleurn) Ziede f rel Chr. 0 3 m. 3 8

The nutbor experimented to determine whether contractions of the smooth muscle of the current and bainsy pielvas could be demonstrated with the maps. He made lever from a 5 cm strength of the country o

In cats and dogs in nurcoun the kidney

exposed and the unter and recal pelves were freed by dissection. The unter portrons if the pel is which were freed of micross membrane and the closes were then individually exmed stretched, and imparted with physiological salt solution. On the control of the pelves of the control of the control stimulation the except closure pelvis of the control of the control of the control stables membrane which were planned demonstrates of the control of the control of the coverer three did not staten the magnitude of the uniteral contractions. In the soluted caches contractions could not be demonstrated. Grazar (2)

Bloch, A. Chronic Pyelitis or Infacted Hydromephresis? (Chroniche Pyelitis oderinfacet Hy dromphrose?) Zischr f und Cher 9 3 xn 9

On the base I capit cases the uthor concludes that simple pryints treatment in without effect in many cases of throme or recurrent cases of prehists and the representation of praintenance between the primary factor in a contract of praintenance between positions of the properties o

case the betruction to the outflow of urine may be congenital being due to vessel anomalies, congenital enlargement or insufficiency of the urcter or congenital insufficiency of the bladder muoculature. His droopshrous due to such causes is detected in the after infection. In unlateral cases the treatment is existing the conference of the contraction of the construction of the conducted of the contraction.

The article is supplemented—the a hibliography
Priamine (Z)

Elsendrath D N Tomors of the Kidney Sarg Clus V Am 9 3, m, 907

This art le contains a case report, a discussion occerning the best method of proposals in operations for renal tumors, and an outline and discussion f the pathological types of tumor f and in the kidney and kidney pelvis. The causes f hierarchical are shown in drawing

are show in drawing.

The inthor emphasizes the importance of pyelog raphy before diagnosis of renal tumor is made.

h heresolvous may grow into a large ven, Eucodrath perfer to to the renal ven early in the operation to prevent the entrance of bits of tumor into the na ca. He recommends that the ordinary lumbs casen be extended forward so that the ordinary lumbs color and pentoneum i mard toward the midline of the body before removing the kidney.

The rticle contains may pyelograms, drawings, and photographs GHEZET J TROSLAS, M D

Hood A J., and Albert, H. An Unusual Malignant "Mused" Tumor (Adenosarcoms) of the Kidney in a Young Child. Califerine State J. Hel 9 3 xm, 85

The authors report thus case of malagnant kidney tumor ma midant not mly because of the rarty of the case and the pa city of the literature on the subject but also because the child came underservations for earn signs or symptoms of the tumor had des doped and hence the rapidity and course of the growth could be observed.

Whe the right pentioneal cavity was opened the ph. right rectus incason, the mass was clearly exposed below. Several small metastases were serious discounties of the serious discounties. The mass was resected. The mass was easily freed down to the kidney pedid which was clamped, and the tumor and kidney were removed or source. Several was used it control hemorrhage. The child's condition was too poor to permit proper attembon to the raw personnel edges. Death occurred on the third day following the operation. There was no a toopy.

The article is summarized as follows

Malignant tumors of the kidney or kidney region are of rather rare occurrence in children

- a Many of the kidney tumors of childhood are of the mixed type
- 3 Mixed malignant tumors of the kidney al a ys contain sarcomatous element

4 Certain mixed tumors contain t bular gland is addition t sercomations elements, and hence represent denourcomats 5 Addinos tromats of the kidney or kidney re

5 Adenos remata of the kidney or kidney region originat from rests of mesothelial t-use of the type originall designed t-form the typical kidney

structur

6 Adenovarromata and other mixed tumors f the kilney which occur early 1 life are rapid in growth, cause little print on desu lly terms t fatally. Metastases occu liv way of the blood stream

7 The operation mortal ty is high. Death frequently occurs soon feer the operation. Childre who survive the operation usually societies tecurrence of the tumor.

B A early disgnose and prompt operations
moval are the endomeans of prolonging lif

Louis (see signal)

Sterens, W. F. The Diagnosis and Surgical Treat sorms of Maligna t Tuesors of the kidney J (nd 19.1)

As prime ty recovery from mulgan t tamor of the kidner depends on early diagroup and tre-time it the presence of even one of the classical motores. namely hymaturia p n and pulpable tumor, should be regarded as an indication for careful and mination of the genit unit in tract The most important sign of all is read pel se de formity reveiled by pselographs. The other three imptoms mentioned may be found in its other read conditions and in trarenal conditions Of 413 cases, onl 44 per cent ere found t ha hematura, pain, and a pulpable tumor t the same time but pelvic deformit, as reverled every last nee. Other ands in the di gnosis are \ ray examination of the gratro-intestigal tract the presence of neoplastic ells; the arme indiprofuse bleeding sometimes following preteral cuther rightion

If the absence of definite metusias and the presence of severe pain or hemorrhage of units it obstruction the treatment consists of replacetoms. Radium pack and deep Virus therapy to orthodorial.

If It is a become a support of the presence of the presen

Frontein, R. Complications of Nephrectorny (Komphisationes bet der Nephrektorse) Ali schriteje Med 0 7

In addition I describing the complexation in detail, the uther discovers the measures for on hating it lingry t the peritoneum is frequent complexation. Injury t knop of interitis leads to fine a facilial therefore in this complexation the facility of the complex to the complexation to the complex to the complex to the complexation to the trained beginning following perfections y a caused by thrombous of the vess of the small intention and is to be combined by the internal administration of regolia, styption or calcium chlorat. I jurise to the pleur are more common and small pleur to the pleur are more common and small pleur to the complex (iversable outgoing by immediate) suturing the (iversable outgoing by immediate) suturing the I jured portion. To prevert scroedary harmorning from the stump of the recal pedicis he recommend the bolition of the uneter from the blood reach and I sep rai ligation. The less mg of an attern clamp I the ound I control such harmorning he and sufficiently dependable for general application of bould be done in exceptional instances only

Some hersorbuge may result from the myary of accressory renal exsels at operation. I other it oil this complication every more as less text strand acors terred in Soluting the kalors about the sourced oil feet double heriton. I jurne it the en-en-and the ena rerulu has abolives reported, treerdung to the Iterature these manner.

re not alse.) fatel (properly treated Ligators to the sit of injure and expectably double ligation of the erra. i., re the method. Inch gave the best result. The stump of the overer should also be ligated. In the best hand the method.

I some cases acrond ry operation is notice to the treatment of the atom. The factors of the remaining helicy must be most caref I or to retigated in order t process postoperation and Antiseparce. I chloroform at cootin reduct I explored as a replaced or to the control of the

Achi. A imal Experiment tion on Assatemental the Ureters I : the Gall-Bladder in Entrytions of the Hindoler (Terrespenser) of last sockare; in Ureterscholers) assausses as let sockare; or Ureterscholers) assausses as let sockare; the Ureters has breach as der Han Hans, Beat. En. C. & j. crem. (A);

I order t as the patient both the docombet and the duringer of implicit not the section in the uperficial is red the sixty of the sixty

tern tools and deed in from £ t ev. da.

You showed the me pact real 233, if ordern and narm of the bruin Vierocopes or mination showed that spann of the renal revel had feel t the drying p of the annual sectrons.

The small instrume presented distinct comprised of the minemax thisseash the occurred distinct open of the minemax of the minemax to other the comprised of the minemax of the deed to the

Breames of these result k-eld outd hat e disoutinued his in eating tions ere it not for the fact that hile his studic ere under a) Dardel in de Quervai clinic undertook similar speri nera. Dardel aurah d d e h t preured to be chreake entertus and this he hopped to persent in the future by the adoption of pecalmensures. Dardel came to the coordinate that the inspiration of the urstern into the gall binders on the camed out in man particularly in cases of ectopa of the binder. Kells contracteds this conclusion on the base of the results of his own in estigations According to Kells expensels, the contents of the gall binder of not all y a remain tentle and the elements is symptom of fatal ursmix caused by the continued absorption of urnor from the intenti-

lismagel, E. J. A Simple Treatment of Certain Lesions of the Intravesical Ureter in the Fe-

made J Urel 0 1 35 The considerable mobility of the terminal portion of the wreter which has long been noted by surgeon m operating upon the unnary bladder and has oft rendered ureteral catheterization difficult can be turned to distinct advantage in the female lesson of the intravesscal ureter such as unitero vencal cost or a calculus of this portio The cv t or calculus may be grusped by Young' cystoscopurongener and dra a dow by and tract destruction or removal t the external unnurmeatus When released, the ureter will drop back mt the bladder t its normal pouts. The principal advantages of this operation re that the simple and is followed by almost mmediat recovers

Hrva W PLASSPRETLE VD

BLADDER, URETHRA, AND PENIS

Mann, F. C. and Magou, J. A. H. Absorption from the Urinary Bladder. 4 m. J. M. 5. 1 drvi, 66

I series of experiments performed t ducovabether bacteria would pass through the amous components of the uninary tract dyestuff en-

added to be injection medium: serv as control The authors experiments were curred out under their marshesis and the urethra and uret is were thimmated as sources of biooption vanieties persential were performed. In autrect were the bladder a detected in the unner draming from the accrete catheter. The time | px all all the propagations of the control of the contro

minutes to more than one how in most instances it as bet een fifteen and thirty minutes feer the injection int the bladder

These experiments showed that bsorption may take place from the bladder even hen the mucosa mormal. The total amount absorbed was relatively mail.

A J Science M D

Fricks, R. E. The Value of Diagnosti N Ray in Proplasms of the Urinary Bladder Thee p Gen 9 3 3 xxxx 549

In every case with symptoms or signs suggesting a scoplum of the bl dder \ \rs xam tion of the pel is should be made \ \ reentgringr m of

case of bladder tumor included in the article shows the tumor very plandy and also area of bismuth in suspension and an area of urine and sir. The uthor cites case in which the tumor could not be found at the cystoscope until it had been demon strated by the Viray Therefore Viray plates made as the bismuth emulsion; the bladder may be valuable side in cystoscopic examination.

BENJAMIN F ROLLIE, M D

Bugbes, JL G Report of Cases of Malignant Growths of the Bladder Treated by Resection and Radium J Levi 9 3 x, 59

The author reports uneteen cases of mal grant disease of the bladder and discusses the nous I mis I treatment including I liguration distribution and radium

A n and in the disagnosis the effect of fulguration on the papilloma is fiten figreat also II papil forms does not respond t fulguration t cocc t is probably malignant and the bladder about delay. When there is doubt the surbor cases as to the nature of the growth removed or of sections 1 ken for disagnosis, the same sections reschools from different parts of the growth ere submitted t more than one pathologist. I see via instances ne pathologist protect on malignancy while smoother reported carmonian forms of the section of the different forms the pathologist of the pathologist or malignancy in solated area of the tumor. If where the same the pathologist is the pathologist or malignancy in solated area of the tumor. If where the same the pathologist is the following conclusions.

I cases feateness carcinom of the bladder hich metastasis ha taken pl. ce, effort should be irrected tow rd making the pitient as comfortable as possible. Often this may be done best by simplibladder drawner.

In tensiv carcinomi of the bl dd ithout metatasis, it is peatible in some cases it destrothe growth by repeated unsertions of ridium needles t interval free dramage for slooging and infection and measures to increase elimination

on an account to increase elimination
3. A circumsembed carenions abould be remot d
by resection of possible. Recurrences flee operation
re-less resistant than the primary growth some
times yielding even t fulgarition. All cases should
be kept under observation following operation i
order that recurrences may be detected early.

4 The insertion of radium needles into the blad der will boot the line of resection causes the for mation is sloughs. In some cases these remain for four months. This treatment minimizes the chances of local recurrence by destroying stray cancer cells and myol et no risk or disconfort.

5 Mahgnant papillom ta should be removed by resection and the line of resection fortified by the insertion. I radium needles

6 While the cases reported are too recent t warrant definite conclusions, the course of the condition has been decided! more satisfactory, than in cases tre ted by method formerly employed.

H w I karrowers MD

sur bestigen Therapie der Harurochrenetrikturen)
Arch f pathol Arch 923, coch 37
The utbox made a hatology study of tuest

The uthor made a hatologs study of twent few cases of typical unreling latticute. In t enty to it has found in the membranous portion, and in these cases seemed to have a particular relationship to the excretory ducts of Couper's glands are frequently sarvolved by faffamination of the uterthral muccas. This is true more often in non-specific infections

than in geocritica Trenamentory inflitrations are formed in the region of the glassi and under certain countries on a shacen develop in the glassi and under certain constituence in a shacen develop in the glassi and the inflimmation process to the copport caver to be a share of the composition of even general series. In muty case continual interior of the control of the copport caver in the case of the composition of even general series in the interior of process are seperficial best occasionally actived into the copport of errors and lead to imprint or consisting active distributions of the copport of errors and lead to imprint or consistent of the copport of the copport

Joseph, II. Playtic Operations on th. Male Urethra (Zar Frage des Leistens en Defekten der meens Echen Harstrochre). Zueler f. srei Chir. 9 3 m.

The methods of operating for epapedus and hypospedus may be classifed int three groups () those 1 which the deficiency is bridged by sniumag of the transact edges, 1) those in which the deficiency is filled by stretching and morang the remaining parts of the turchin (2) piratic methods in which a new tobe is formed by means of 4kin

flap or by free transplantation For riensive defects in the posterior wrethra Budde has suggested cutting the flap from the acrotum all around, but lessing a connected sub cutaneously with the septum scrots which contains branches of the posterior acrotal artery from the perineal artery. This method was used by the athor in a case of extensive injury and shortening of the anterior methra is which the penis and scrotum were adherent by firm scars. After preparation the by 7 cm fap 6-cm defect was bridged by formed into tube which hing from the septem acrots like an intestinal loop from its measurery and was sutured int the wether. The urine was drained through a suprapulat fistula. The new urethra functioned well and the result was pormasent Von TAPPETOER (Z) Shrinkage did not occur

Perster N. E. Epitheliona of the Penis Fellowing Plangedonic Chancroidal Infection. Und & Cates Res 1913, 2278, 458

The author reports a case of carcmoma of the penns developing in the site of an unassally stubborn chancroad which had been under observation is intervals over period of several months. M

croscopic studies of sections from the alter takes when the patient was first seen and again at the fourth most howed no evidence of malapsace. In the eighth mosth, however malagnase, was clearly appeared and occurated amputation of the penis and discressors of the unsare stream by pensel drausage. Eight months first the operation there drausage. Eight months first the operation there

As no evidence of recurrence.

The case is crited to show the importance of keeping in mind the possibility of mahigaint changes at phagedenic chancrods. Henry L Savrous, M.D.

GESTTAL ORGANIS

Swan R H J The Incidence of Melignest Dosese in the Apparently Besign Enlargement of the Prosist Proc Rey Sec Mel Lond 923, Nn, Sect. Uni 7

In the cases reviewed, digital examination of the protecting that fee called only a soft, clastic, mortally collargement and the symptoms or those presented by the ordinary beingn kypertrophy. In three cases operation as followed by cancionation in filtration; the lateral lymphatic space. This, however did soft interfere it mortantions.

In 5 as's opinion mahiguage; occurs is apparently, being hypertrophy of the prostate more frequently than is generally behaved, and therefore every gland removed at operation about he sale acted to a close microscopic examination before a distribution of entirely bening enhancement is made.

Herea L Arrectora, MD

Judd, E. 8. On th. Surgical Treatment of December of the Prostat. Gland. Am. J. Surg. 9.3 22278.

Being charges in the present are sentors part for far as they interfer in this function of the kinds of the results of the protein farfammation around the protein association with method indication discussion and protein control of the protein of

operation is sensify advantable. The trowble following beings inflargement of the prostate depends on the amount of interference with the function of the bladder and ureful. Beings enlargement develops in the gland like a sergiouse. The times are compressed by the growth and form capsale from which the demonstrate highest control of the control of t

Cancer of the prostate in most cases arises in the nosterior lobe that portion of the prostat which is generally not removed in a suprapulse prostatecto The best results are obtained when the protatectomy is followed by radium treatment

At the Mayo Chuic prostatectomy is performed in the same way as abdominal operations, every step being visualized Exposed tissues can be packed of and hemorrhage can be controlled by a tures

Sacral nerve block gives the most satisfactors anesthesia for prost tectomy and practically never causes postoperati e complication. It is simply and easily induced and go es an anyesthesia if an intensity and duration sufficient not only (the removal of the prostat but also for resection of the bladder for other conditions if this should be us exsary. It must be supplemented by suprapula filtration The injection of no occupie t the region of the sacral nerves should be done slowly because sky becomes of the solution tends t minimize

the possibility of transient toxic effects A J SCHOLL, VI D

White, II P W The Closure I the Suprapubl Urinary Fistula Following Suprapuble Prosts tectomy Observations on Sixty Eight Cases Bri 1 5 7 9 3, 23

In the cases reviewed the bladder wound closed around a Freyer tube and occasion by small drain was inserted in the prevenced space The tube was left in place for three or four days and then replaced by a smaller one. The urine drained into absorbent dressings held in place by tailed bundage and changed every four hours. If prostatic pa king was used t was removed on the third day. The bladder and the prostatic cavity were irrigated suprapulscally and by Janet method duly. The suprapulse drain and the tures were removed on the tenth day and a large steel sound was passed per urethram. In complicated case the patient was sitting up out of bed during the third week. An ind elling catheter
was used, when adicated and the patient dis charged from the hospital when the fatula had

In relation t the employment of an indwelling catheter the cases are divided int groups as follows Cases in which the fistule were closed by the twenty-eighth day without the use of an in dwelling catheter

Group

dosed

Cases showing signs of delay in the closure of fatule () treated with an indwelling catheter (b) ind elling catheter contra indicated for the tim being and closure occurring later spontaneously or following delayed use of the catheter

Group contained 38 per cent of the cases, closure occurred in an verage f twenty days About 4 per coat of the cases fell under Group sa, an indwelling catheter being used for three days during the fourth week of convalencence. Of this group, 67 per cent had closure before the twenty eighth day Group so contained so per cent of the total number of cases I 6 per cent f these closure occurred

without the use of the inlying cutheter the verage time being thirty-seven days. In 18 per cent closure was delayed until a catheter could be borne with safety the a crage time being thirty-four days

The conditions preventing the use of the inlying catheter were acut epididymitis, pyclonephritis and slough or phosphatic deposit on the wound surfaces. The epolsdymitis usually occurs in the first week of convalencence and therefore is not necessaniv contra indication to the use of the catheter in the fourth week of con alescence. When th catheter as tried i the presence is pyelo nephritis it increased rather than diminished the sums finfection. Phosphatic deposit of the wound urface occurred early and began t alongh off about the end of the third eek catheter as of no value until the granulations ere free from slough, and these cases were prone t develop epididymitis and py lonephritis

The ttempt was alw as made to obtain unde I yed closure thout the use of the mlying catheter but often when fatule persusted closure was establabed at once by the proper use of the catheter The catheter lso caused the re establishment of mict rition when this was delayed. The catheter is t be oxded, if possible because it is foreign body in the granulating prostatic bed. The ure thritis it sets up appears to be proportional to the time t remains in the rethra. As the discharge is serous until about the third d ; the catheter was removed t the end of the third day The maximum benetits are t be obtained when the catheter is not used too soon in case of doubt as t the time it should be employed delay of a day or two us d If the fistule is in danger f becoming epathelialized it m y be curetted and the edges approximated thadbean tape

B fore final closure of the fatula as accomplished

th the ind elling catheter the wound surface should be free from slough and phosphatic deposit and micturition established. Under such circum stances the wound should remain dry for an hour or longer at a time. If spontaneous closure has not occurred after several days of this condition the catheter should be employed. In the cases reviewed the fistule most difficult t close occurred when the first of two stage prostatectomy had been done months before the secondary operation, and when the re-establishment of micturition did not occur until after the use of the indwelling catheter | Large catheters of gum elastic were used

The operative procedures included the Frever the Thomson-Walker and the two-stage prostated tomy The first two methods were used in 8 per cent of the cases and were followed by healing in twenty-mx days A two-stage prostatectomy was done in 19 per cent, and followed by beating in thirty days. The more slowly healing cases were by no means all in the last group. In two cases the first stage had been done eight months prior to the prostatectomy and closure required eacht and nine weeks

Brack, E. The Geneals and Present Day Treatment of Strictures of the Urethum (Zur Genese and nur heatigen Therape der Hammednemeinkrimen). Arch. J. Build. Aud., 1931. cc. fb. 37.

The author made a hatdoppe study of t cally for cases of typical orethral furture. Is event, to it was found in the membranous portion, and in these cases seemed to have particular relationship to the extratory docts of Cooper glands. According to Brack, Cooper's glands are frequently uncovered by milatemation of the urethral mucous This is trees more often in non-specific unfections.

than in geocriber
Prencandardust mfinimatory infilirations are
formed in the region of the gland, and under certain
consistence as a sheere develop in the gland
and the infilirations promote to the copyon caver
more, crassing frombus forestation or even general
separs in many cases of catricial appretion of the
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Joseph, H. Piestic Operation on the Male Urethra (Zur Frage des Eratzes on Defekten der mass lichen Harnrochre) Zische f and Chir 9 3, xn,

The methods of operating for eperpadias of hypospadias may be classified in: three groups (i) those in which the deficiency is bridged by saturing of the irimmed edges () those in which the deficiency is filled by strictining and moving the remaining parts of the urethra (i) plastic methods in which pow tithe is formed by treasy sof also in which pow tithe is formed by treasy sof also

flan or by free transplant tion For extensive delects in the posterior urethra Bedde has suggested cutting the flap from the acrosum all round, but leaving it connected subcutaneously with the sentum scroti high contains branches of the posterior scrotal artery from the permeal artery. This method was used by the thor in case of extensive injury and shortening of the anterior urethra in high the penus and acrotum were dherent by firm scars. After preparation the 6-cm defect was bridged by 5 by 7 cm flap formed into a tube which hung from the septum scrots like an intestmal loop from ta mesentery and was sutured into the urethra. The urine was drained suprapulse fistula. The new urethra functioned well and the result was permanent VON TAPPEDRES (Z) Shrinkage did not occur

Forster N. K. Epitheliems of the Penis Following Phagedenic Chancroidal Infection Ural & Cales Res 933, 2210 458

The author reports—case of carcinoma of the pens developing in the site of an unusually stubtion chancing which had been under observation t astervals over a period of several months. M croscopic student of sections from the sker tike here the patient a first seen and again to the fourth month showed no evidence of nalapaney. In the eighth month, however malignancy was clearly apparent and necessitated superlations of the pens and due reason of the unmary stream by personal dramage. Eight months after the operation there as no evidence of recurrence.

The case is cried to show the importance of keeping in mind the possibility of malquant changes in phasedenic changes in Hirary L. Savonen V.D.

GENTTAL GROADS

Swan, R. H. J. The Incidence of Malagnant Ducase in the Apparently Braign Enlargement of the Protest. Proc. Rey. Soc. Vol. Land. 19, 3, 74, Sect. Urol. 7.

In the cases reviewed, digital examination of the prosistic gland revealed only and it, cleane, provide enlargement and the symptones were those presented by the ordinary beings hypertrophy. In three cases operation was followed by Curionomatous in filtration in the lateral lymphatic space. This, has ever did not interfere with metitations.

In Sun opinion, malignatory occurs is apparently being n hypertrophy of the prostate nove frequently than a generally believed, and therefore every gland removed at operation abould be subpected to a close microscopic examination before diagnosis of entirely being enlargement is made

Henry L Linement, MD

Judd E S. On the Surgical Treatment of December of the Prottat Gland Am J Surg 19 3, 2231

200

Brings changes to the prostate are serious yields far as they interfere in this function of the hidden Inflammation arising a the proof 1 to secontation to workful infection estably subsides gradually as in other tissues in certain cases, however in gree on it suppositions and shores formationed and process in the proposition of the control of the c

operation is timility dynable. The trouble browns brown manufactured of the prostate depends on the amount of interference with the function of the bidder and methy. Be man calargement develops in the grad like regress to the times are compressed by the growth and form capsule from which the adorsmant tections in performed to the constitution of the contract of th

Cancer of the prostate in most cases arms in the posterior lobe that portion of the prostat which is

When suprapuble bladder drainage is necessary the incision should be made large enough so th t the peritoneum may be pushed out of the w.)

Cancer of the prostate may be present and may netastastic without causing prostatic enlargement

or urnary difficulty

One third of all prostatic cancers have formed me tastacs—hen first seen

The treatment of cancer of the prostat commits
of radium radiation and surgery

Hematura abould be Investigated as soon as it is noticed. E en if the bleeding tops a complete unological examination should be made as frequently lesson of the urmary tract do not bleed for periods of several months.

As cistitus does not occur as a primary infection the unnary tract should all yas be examined before treatment for cystitus as beginn

The pychin of premancy is an oute xacerbation of an already present chronic pychoephanias. For of milection are easily found. Befor going t t m premant women should ha e all infected teeth pot either possible foot of infection removed.

Chronic pi lonephritis may be symptomless times. Frequently the urine is normal. A cold or other acut infection sull cause, acut track the

the tennal symptoms

Renal stones may be symptomics. I dditto t surpery the treatment commits if the removal of foci of infection and pelvic layage

In every case of pelvic or abdominal pain uneteral store should be thought if as a possible came. Sur-gry b rarely necessary to remove ure rat I tones. Unappulation about also as a trued before operation and advised. Twenty per cent of uneteral stones on the right side are strongly diagnosed.

Bladder tone may be symptomicss Lithotapa y should be done if the stone is not too large

Tumor of the renal area or upper belomen can be differentiated only by means of the cystoscope the areteral catheter and the pyelo meterogram

LOCIN GROSS, M D

HEL, J. H. and Colston, J. A. C. A Not on the Bacterlostatic Action of Urbn. After the Intravenous Admi Intration of Mercurochrometo Normal Rabbits. Bull. John H. ph. Herp. Bull. 9, 1, ren. 10.

Preliminary tests before the administration of the drug postuled the determination 1 the body right, phenoleniphon-philadem test of excertose, and examination of the simple cardiade by present of east of albumin, and of the faces 1 exclude durings. A firstly prepared per cent solution of accretionces was then impected into the marginal early tem Control on the distributions of colonals et ven. Control on the distribution of colonals et ven. Control on the distribution of the asy if was possible it determine the number of exprasans present at the time of the colonization and at the end of the period of expression.

organisms present at the time of inoculation and at the end of the period of exposurs. The cition of formal sume having been determined before the injection of the drug, twas possible t estimate the effect of the drug upon it. In cases in which the normal unne was bacteropatatic, an uncrease in inhibition after the meetion of the drug could be shown. As inhibition was regularly noted after the injection, other factors remaining the same, the sunhors feel pathied in attributing such action to the drug or its derivatives. The hydrogen-on concase in which a sufficiently large specimen was obtained no marked or regular variation was found after meetion.

The article contains several tables showing the inhibitive action of urms following the intravenous injection of 1 5 5, and to mg/kg of mercurochrome. In the cases bactericidal urnse was obtained in one after single injection of 1 mg/kg and in the other after single injection of 5 mg/kg.

In conclusion the uthors state that the clinical trial of moderate intra enous doses of mercurochrone in bacillus coli infections of the univary tract is justified from the point of view of bacterpostate action

C RITHERTORP O CHOWLEY M D

Viagoun, J. A. H. J. Absorption from the Urinary Tract J. Unit. 9.3, 5, 67

In series of experiments carried out by the author t was found that certain dyes and bacteria, were bacted from the normal ladney wreters and ure this. I large series of experiments performed presonsh with regard to the absorption of various dres and the bacillus produposus from the binder.

t was found that the dyes ere absorbed t a sight tent, but that there was no absorption of bacteria. The anous portions of the unnary tract differ greatly in their absorptive powers. The kidney absorbs dyes and bacteria to marked extent. The ureter and urethra, booth dyes readily but bacteria.

irs readily. The bladder on the other hand, absorbs very small amount f dve and no bacteria. In cases of pychtas, the clinical phenomena of chills and fever may be due to the absorption of name and bacterial towns. Reactions following cystoscopy occur much more offen in males than in females, possibly because of the absorption of bac

terns through the prostatic urethra \tempty terming was made to study beorption under pathologi conditions, and the path by which absorption takes place as not discussed. It may be assumed that absorption occurs through the blood

and lymphatics, especially the former

The uthor concludes that the kidney has the
greatest beorptive power the urethra the second

greatest, and the ureter the third.

Batteria could not be recovered from the blood stream or various organs after their injection into the normal or the acutely inflamed bladder.

Experimentally and chincally bacteria may pass from the pelvis of the kidney into the blood

In certain cases the Lidney once infected m y ct as forms for secondary bacterismia

A J SCHOOL NID

SURGERY OF THE BONES JOINTS MUSCLES, TENDONS

CONDITIONS, OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

Katzenstein P R. The Conflicting Properties of Perfecteum and Bone Medulla in the Formstion of Bone (La propordades operats del peri ost y de la soèdula dera pare la constitución del kacro) Pres e la cle Madred o 3 xxv 4

In experiments on dogs Katsenst in found that the microscopic picture was the me when peri outeum as trappola ted t bone medulla and bone medulla was transplanted t the deep surface of pen osteum I both cases there as absolute subshitton of the capacity for bone regeneration. H. dra. a the following conclusions

The periosteum and the bone medalla re the turner that form and regeneral bone. It must be assumed that their activities are ery different because I they ere analogous, the combination of both turner would result in the sum of their effects. whereas both the introduction of personteum into the bone medulia and the transpla tation I bone medulia to the deep surface if periosteum impedes the union of fractures nd may go e rise t prend arthro-us

These findings explain the forms ion of pseud arthroses infractures. When there is considerable disruption of the periosteum in a communited fracture it i not surprising that predatilement is produced or union of the fracture is delayed as we now know that, for their full activity the periosterom and medall must be kept accurated by book

pseudarthross care should 1 In operating on he taken t - attimate the sone of cartilage between the to extremetes of the bone and to see that so medulla is mixed ath personerum and no personteum is mused ath bone medulla

A In the repair of home defect by the transplantation of living bone care must be taken that the hving bone covered by its personteum is applied in such way that its periosterin ill not come int contact ith the medulla of the extremities I the bone t be repaired

Orthoger A. J. Ostsomisellik J Lancet o L Skill 3 5

In acute osteomyelitis early diagnoses and immediate treatment are of great suportance because on account I the rich vascularity of bone the disetac invades very rapidly \egative \ ray findings do not contra indicata operation. Positiv. A-ray finduars are present only after the discuse has caused considerable destruction. Dramage abould be in stringed a a t dressing policed and the flected part immobilized

If the process is allowed to continue or if the incision is not sufficiently extensive the process rury burrow into the joint. The most common invader ss the staphylococcus, less frequently the porsmoroccus, colon bacillos, typhosd becilies, and streptococcus are found. The incidence of the condition is three times as high in boys as in gats Of the st cases I the Augustana Hostutal, Chicago, the femur was unvolved in thirty-more the tious in thirty-one the humerus in since the fibels in seves and the radius and ulna in t each

C usat a conditions are the examinemats. typhold fever pneumonia, plearnsy tousiditis, abacreses of the teeth, trauma exposure exhaustion

and furniscelosis

In chronic orteomyclitis the sequestrum should not be removed until an un obserum has formed deep hole remains it may be alled in by sewing the surrounding skin and subcutaneous turne int the bottom of the trough

RUDGERS S RECE, M P.

Joll G. A. Metastatic Turners of Bone Best J. Serg 93.E. pl

Secondary tumors of bone must arise by () direct extension from surrounding tustoe, () extenson through the lymph channels or (1) extension through the blood stream. As the first method of direct extension is not strictly metastasis it is not considered here

I order t mak the thory of hypotatic exten mon acceptable it must be shown that the lymph channels extend into the bone marrow. This kine not been demonstrated. They have been traced int the compact bone but are stopped by the endosterm

The blood stream as the medium of metastass as first studied by on Reckhaghamen who concluded that secondary temors in bone rose from makenant embols lodged in the marron capillaries. It has been show by several patholograms that cellules from

malignant tumor can usually enter the blood stream through the vasa visionim. There seems t be conclusive systems also that metastates marry al ays begin in the cellular red marrow. The infrequency of metastuses in the distal hinh bones at expluned not by their greater distance from the primary growth, but by the fact that they contain very bittle red marrow

44 autopsy records for bose On searching metastases, the author found fifty-three cases. The primary growth was carcinosea of the bresst in thurty four currenous of the uterus, thy road and emophages in the calls, and carrieons of various other organs in one each. The bone metsetises occurred in the vertebra m 6 per cent the ribs in so 4 per cent, the sternum 147 per cent, the femur is 17 per cent, the shull in 1 2 per cent, and in six other sites in from 7 g to 1 per cent. Other observers have found the shull the most common site. Ewing pieces the sternum risks, and femur before the shull

and vert bre in order of frequency of involvement. A case of metastass in the sternum aboved the amortosopic structure of scirrbous carcinoma, that of the primary breast tumor. Another in the himeria was of osteoplastic nature, but in spate.

the two montaneous fractures occurred With regard to the road metastases in bone kanoky stated that in a fourth of the cases there is no obvious directal enlargement of the thyroid. As rule the metastans is of slow growth. It may be the only one in the body. The thyroid nature of these bone tu mora is proved by their content of sodine and colloid The wihor tabulates forty four cases of metastatic thyroid tumors in bone associated with normal thyroid or benign goster. It is claimed by some pathologists that there may be minut islands f malignancy in the thyroid which escape detection by the ordinary methods f examination. However stict removal of the metastases there as usually no recurrence. In one case in which the thyroid gland had a small nodule in one lobe tumor was removed from the clayscle which showed a structure identical with that of normal thyroid. There seems to be constant relation between the thyroid tumor and its metastasis as to the degree of mahgnancy

Tunors of the prostate have the greatest tendency of all primary growths to produce bone metastases. The secondary growths are multiple and may have

sle distribution in one case the skull, pelvis, nos. sepuls, humerus, and chivide were in lved. While there is a characteristic outcombastic tendency which, according to Ashamen, is due to the stimulos from the carrenous cell titled the ossication is usually accompanied by osteodism and in some cases spootineous fractures occur.

Tumors in any part of the crimary tract seem to stare the those. It he protest the tendency to form metastane in the bones. The author reports four cases of caremoma of the bladder with secondary deposits respectively in the radius, stall, this, and

Hypermphromata (ten are symptomiess at pinary growth Therefore their metastases in bone may sometimes be erroseously considered primary cless with unvelocement of the humerus, clavofe, this, index, and this are reported. Cases of bone metastasts from uterance tumers are numerous one case of testicular tumor with deposits in the spine argorited.

Temors of the toeque do not give rise: I been entestates very irrepearly by too scree is reported of an epithebona of the femily primary in the torque Moseum specimens are mentioned which shows nettatatic carenome of the femily pelva, and risk, respectively from primary growth in the cropba per Cases of carenome of the stomach and the sings meterine citizeng metastates in the boost, and

a case of liver growth caming a deposit in the spine are on record

In one case of mekanotic sarcoms of the thumb deeply pigmented mekanotic growths were found in a nb and in the femur

In the disposes of these bone tumors the primary growth is sometimes overlooked. Five cases of renal and aircrail neeplasm are mentioned in which the bone tumors were regarded as primary because if the obscurity of the primary lessons. According to the primary lessons are coroling to a soft the primary lessons are in the cylichyster plan is not common. Deformity or spontaneous fracture may be the first sign notice! America may be severe. Rometignograms help materially but as a rule do not differentiate between primary and secondary growth.

The benefit from operation on secondary growths is usually transitory but in some cases the patient has lived eight of the years after resection. Of the operature procedure, insufed esection is usually to be preferred to amputation, especially for growths secondary to thyroid and result tumors.

WILLIAM A CLARK, M D

Chaton and Calliods Myositis Ossificans Localised in an Area of Necrobiosis (Foyer de myosite ost-fount locales en état de nicrobose) Prem mél. Par 9 3 xxxx 35

The patient was farmer who 40 years previously suntained a severe injury of one leg, incl dung dislocation of the kine and fracture of the askle subsequently a booy timor appeared on the leg. When opened this was found t be reddish soft in the creter and formed in linear columns much lik surroum. No bleeding was encountered. The entire mass was removed.

The authors believe that t the time of the codent the muscles in the leg were torn and that a chronic sclerosing myosits then developed which ended in an essifying process

Histologic examination confirmed the presence of ossifying myositis and the absence of sarroms. In conclusion the uthors state that the type of tumor described should be borns in mand in order that it may not be confused with sarroms.

KITTOOC SPEED N D

Kunnetmowsky N J A Case of M Itipia Xanthematous Granulomata in Tendons (En Fall multipler xanthomatoeser Granuloms in den Seh nen) Arch f bin Chu 9 3, cxxv 73

The case reported was that of a man 40 years of age who for tw years had noted the presence of multiple nodules along the course of the tendens in his legs and forearms, or the dorsal supert of his hands, and at the sites of insertion of the tendens in under the skin. In part, the localization was yemmetrical. Microscopic examination revealed typical so-called ranthoms cells in the masses.

The author states that this case had nothing in common either clinically or pathologically with the so-called analosa uromana described in the latera tear I differed from them by the multiplicate; of the modules, the exclusive mode cross of the clona, and the absence of gast critis and pigment. Kunettowsky defines the changes as curummerful excumulations of ranshoms cells in granulation tessue which had undergone transition; to fibrous tissue which had undergone transition; to fibrous tissue which had undergone transition; to fibrous as an inframmatory rather thus neoplastic process, as an inframmatory rather thus neoplastic process, and the state of the control of the control to the control of the control of the control to the control of the control of the control to the control of the control of the control to the control of the control of the control to the control of the con

Fisher A. G. T.: The Nature of the Se-Called Rheomatoid Arthritis and Geteo-Arthriti Brd M. J. 121. 03

The underlying reasons for the present tats of confusion in the problem of arbitrits are gnorance of the fundamental principles of the physiology of the articulations there has todayed structure (especially nature of the pubelogic charges in the disease There is also a world fact of conformity in the nosenciature and of co-operation bet een the surpress, internat, and speculate in the dispusses and treat

The author recognises three types Type 1 in which the disease begins in the central cartiage with late in oference of the 3 novia. Type 2 in both it begins in the 33 novia and Type 3, is which it seems to begin simultaneously in the cartifuge and symous.

spoons are the cartest changes re in the central residues. Mirrereopeally that are a yellow his nested of the accrual translacent bleast with the standy of the accrual translacent bleast with the standy of the superficial layer takes the stan ery faintly. At lates stage foliations or spiriting of the matrix is observed. This process is reparted a degenerative. Later stuff there is productioned the manifold central seal to be a production of the manifold central seal to be a production of the superior of t

Trasma doe t repeated mechanical stress or contesson, asually occupational in nature may be an euological factor in this type. The tôle of bacterial or metabolic torins as a cume is still indecided. Type. L cry stage of acutebess may be seen,

Type I. by stage of an with contractures, I mild symptoses with part and installation of motion. The term "strength surpoys in terms to discuss repaired to the type is underturned to the surpoys in the results of discussion of the process in of a protonanced inflammatory nature. The articular critical large may be invaded by panears of granularity through the may occur in facility to the process growing in from the article space from the contraction of the total type of the type of type of the type of type of the type of t

lar surface

The lateral part of the attentiar cartiling as better scorfished than the central part because of stapen-choodman and better blood supply. That may creptain shy the lateral areas are less succeptible to deponent! changes than the central parts. Presults probably play no part, The author has seried in large number of laner cases that the changes that the change of the party always begin in the trendless area of the featured cartilings and the central part of the patients cartilings rather than the condities.

surp is greatest. After the experimental production of Condition of inter-arthritis by remo. I of the critical cartishes it has been noted that repair resulting in the characteristic lipping takes place around the marging in doct in the defounded central area.

Although it is not it find organizes in these youts, there is build it channil et klence of the infections nature of the theates. The problem of ethology is ose for the be terrologist and chemical pathologist woking in conjunction in the surgeon.

HILLIAM A CLARK MD

Schmidt, G. Habitual Displacement of the Ulase Acri. In Cabittee Varue and Valgue (Celerlabs and Cabittee Concernations in benchmer in Cabities for und volges! Zentralid J Chr., 421 414.

The literature contains little regarding this condition. Umar nerv deplicement occurs in both cashing along the same contains a sign and cubition in Cubitos are expecully in one such displacement a methal too dition the nerv stands out the boost rang. Home burg has reported one case of nerv displacement in

post feral cubitum warms

I this article the a thor report a case of bilateral cubitus run in bich, upon sodden extremsts of the arms of hand pain reducted int the baseds, in pressibly the little saper. The angle of the cubitum same war is degrees. In the hand the pastlorn bone protroded of and almar ward When the forearm soldients extracted, the next shyred earli from its held. It there as no history of the conserved of cities of the conserved of cities of the conserved of the conserved of cities or companied to the cities of the conserved of the conserved of the conserved of cities or companied to the conserved of the conserv

Settler F. Symevial Influenmation of the Tendon Sheeths of the Bunds and Feet as Occupational Divease (S. novale Scharous) consentions dungen als Geverberkranku g. an Haenden wat Frences of red f H. Chir. J. (2008. 36)

After review of the nationary of the terofon sheaths and the lot 1000 of the different burns in the hands and feet the uthor discusses in general wa the nature of inflammation of the tendon sheaths inch affects particularly brakemen, lock souths cuspectien and once whose occupations requires t arting and rubbing motors of the hands. The process is smallly subsecute.

Sattler recommends conservative treatment by practure and repeated mectons of from to 3 cm of Calot's solution. Injections of larger quantities may produce irritation which will cause the fornation of melon-seed bodies eventually similar any tuberculous. By this conservative treatment minfol centimation is prevented. Toutes (7)

Lang, F. J. Microscopic Findings in Juvenile Arthritis Deformans—Legif-Cairis-Pertiseo Osteochoodritis Deformans. Come Juvenilleand Comparative Research Regarding the Indiplysis of the Head of the Former with arthriphysic of the Head of the Former with arthrich processes and the Head of the Perturbation of the chapache Belimde has prevened Arthritis deformation. —Osterobondina deforman juvenila cous-large Cai 4 Pertico-sects: critischendes U terseon dern Berneckschitzung der F. es.) 4rck (psik Just) G. Cerriti, 76

This article reports a very thorough macroscopic and microscopic study of three cases of ju emile arthritis deformans and in illustrated by thirty term excellent photographs and discreams

From anatomical and histological facts t would oppose that in arthritis deformant the margins of region of the fores and the round legament of the best of the forms are the first to exhibit this grant and the form of the form of the form of the first the first to exhibit the grant and the first to exhibit the grant and the form of the first the

The diagnostic features of juvenile arthritis de formans re the limitation of the condition of the region t the foyen of the head of the femur and the

endences of trauma

From the standpoint of ctodagy is forms in stanginghed one, which is thateral, dependent on developmental disturbances, and christeniced bereastfulled symmetry and the presence of uncrouspoints of ossification in the epiphysis of the hi do activately these developed in urregular and activation that have developed in urregular and activation that the developed in the property of the lateral and present is the result of injury to the repose of the foce of the head of the femur.

One of the author cases of bilateral j case in this deformants such to 0 j ar-old obe, arthur deformants such to 0 j ar-old obe. The hatelopped changes in the cartifuguous border creat limited i the repon of the centers of osufices on the opphysion, being found boun the other and the context disputes border of the dusph as I to textilizations border of the dusph as I to textilizations border of the dusph as I to textilizations in the prophysion, being formal time is not found as the context of the cartifuguous border of the things of peculiar nature was deposit of outcophism of peculiar nature was deposit of outcophism of the cartifuguous borders of the case of by diagraging on the round ligament of the point which had been put in t f temsoo by distinging of the based of the femiliar.

One of the a thor a cases of unilateral ribnius deformans limited t the region of the fores as that of 30 year-old ma in hom ery large encap-

sulated cyst due to hemorrhage had developed apparently as the result of an injury sustained in youth On closer study the local continuation of quit typical arthritis deformans was seen in the region of the margins of the fores

has result furchantral influences of functional or tri matter all the case studied showed for of ophitters for elachfied cartilinguous substance and collections of definits brought often from a datane, with reactic changes in the recently fine certain greas bons trabecules had been split and that fragment rubbed smooth by long continued inction and coated with mescod material.

In both forms i j enik rihrits deformans i octonal nd traumate mjunes play a decurve ole nd b their progress and sequels determine the insidousl progress character of the disease. As t whether cretinoid bone dist bance fa our

the ppearance of µ ende ribnits deformans (Lie weet) the thor it tes that the head of the femur for the remainder of the femur should be comparable to the comparable of the remainder of the remainder of the remainder of the femura page of bone f musion, a d hence no signs of deforming ribnitis in spit f anous local changes of dute it loosening nd separation of the cartilagnous is ground substance of the femoral epophysis in the ripnon f the osteocartilagnous borde of the dia pit as.

5 TRIBLE A.

Robin Two Cases of Deforming Osteochondrili of the H p One Followed for Eleren Years and the Other Complicated by Congenital I umber kyphonis (Hen cas d osfetchondril deformant de h kanche dont me prediction oner ans et tre accompage de yphone congenitale lombaire) het derille of S. E., 19

The first case w that of girl of old years who begun t lamp eight months before she was ex ammed by the uthor II has appeared thick ened but the lumps g did not resemble that of congenital dislocation. Pressure over the heads of the femora while she as in the recumbent position revealed slight looseness. There was no inguinal denits skin chi ge M. ments of the hips were normal except for limitation of beingtion. The \ ray confirmed the diagnosis of infantile deforming osteochondritis. There is re changes in the head and neck of both femora and a both acetabula. The emphyseal line of the head as flattened the eps physeal cartilize sho ed irregulanties, and the femoral head w enlarged. On the right aide there as loss of calcufication. Both acet bul were irregu-

I and the joint spaces ere enlarged. The second third and fourth lumbur vert her aboved. It phosis as and in this area presure was slightly painful Heision lateral bench g and rotation of the spine elected no pain. The reflexes and sensation in the legs were normal.

A tero posterior X-ray examination of the space howed dorsolombar scoloom t the right with decademention of the third lumbar cert bra. The lateral less showed that the body of this critebra was reduced two thirds in sue. The four other lumbar erichne were more or less deformed. A fence-

trated plaster cornet was applied

This case was interesting on account of its bilateral haracter which is unusual, and on account of the changes in the secrabula and the lumbar critisher. The subsor is inclined to believe that the change in the space a congruital aplasar.

The second cive was that of a 13 year-old boy the conclus of long non the right sale. Hip movement was normal except for slight limitation of biduction. The N as revised outcodouthils bleven years later this patient was ligorous in without any himp or disability but firefly of the flight musch. I altagrams takes elseen years part to shown.

Aminos Sein, MD

Krewscher, P. H. Unosnal I forles about the knee Joint. Serg Cl. V in 9 3 in 7

The author reports three cases of up 10 to the leg on the thigh but showed no extern 1 ev dance of trauma except shight brushing of the skin. In the first the patella as discoated downward, in the second it was dislocated upward, and in the third it was dislocated to outstard from it usual postions.

Cast. The primit was man 3 years of age who while exceeding in gymnasum suddenly shpeed, striking his right knee upon metal but The accodent cureed extract using pain. The fig was straightened but yet soon the line past began it is. If The patient was able if the the hee but not to extend it. If entired the hospital six bour after the accident The Vin received no supary Physical examination and the lane to be filled to the patient of the

At operation semifunar action as tended one inch lower than the line of rupture the cap sole and the skin was desected but, ith consid erable difficulty \umerous shreds of tissue were found, some tracked t the pit lla and others t the tubercle of the tibes. The punie as not red and the shreds of tendon ere brought together The rount was then closed thout draining and traight posterior plaster splint 1th Buck extension of bout lb. Aft maneria the nationt as permitted t make flexing the knee Eight months fter the operation he was able to extend the leg w thout the shightest difficulty

Cast? This case was that of man 1 years of age who was injured in utconoble accided X-ray examination as negati. On physical examination it is examinated in the cordect the stump of the quadriers extensor trades as found 1/1 in above the upper end of the patella. A transverse inclision was made. The years contained very small quantity of cless fluid. The tendon

stamp as found but was too short to allow appear tion. Two lateral measons were made just at the side of the rectus femoris tendon and extending ap-

ard boot t in t divide the attachment of the v tos I teralis and the vastus mechalis, the stump of the tendon was brought down to the patent and the tendons of the lateral muscles were sutmed in position. The patella as prepared for the attachment by incising and defecting the percentage backward and drilling three holes through the sa tella from before backward. The tendon in the brought down and sutured with kangaroo teades by several mattress sutures. This haven been down the reflected periosteum brought back and waited to the tendon, the wound closed, and a posterior splint applied. After series cells the Datient was permitted t make active motion of the knee fourt. If as able t flex the leg scutch or the thigh and t extend it completely all consider

ble strength.

Cas 3 The third case as that of some lajured in an actomobile accodent. Expansions between the partial to the deplaced control strength between the partial to the deplaced control strength of the control of the contr

Boularan and Bos heure. A Clinical and Austonical Stud. of Case of Congenital Gens Renvatura. (Finds: launquer et automy pet d'un on de géns recurs tuns congénial). En d'ariet. 10 ; XXX, 23.

Committed gens recurr time in preciably the wait of legislamentous and displaye creptly set disagns with musicular contractions due to moon passes as the attent of the pressure any be either eith of later attenue. Substantion of the time of the results and in followed by hippercriticals and present the contraction of the later at later

The puts to whose case is reported set by rear-old girl who entered the howest for the rear-old girl who entered the howest for the rear-old company of the period for the rear-old company of the period for the rear-old company of the rear-old com

deep folds in the peripatellar sain region degree of genu valgum almost complete chims tion of the populest folds, and compensatory golds: with private tipping. The left foot was in equinus Palysiton revealed posterior dislocation. I the femaral lead. The knee showed looseness and marked lengthton of flexion.

When the patient walked the genu recurvatum beams more marked and she required support Further examination revealed a total loss of power in the extensors of the left leg. This the authors regarded as the result of an overlooked miantile paritypis

The Reentgen ray showed typical dislocation of the lm, and the lateral view of the knee joint revealed absence of ossification in the patella with antero posteror fattening of the elongated femoral epi

plyms.

The hip was easily reduced by open operation and the leg then immobilized in fleriou abduction and internal rotation, with the knee fleried to go degrees. After kew days, ferer, sore throat and a scarlationary mesh appeared and a ere followed by septiscrims and flexib.

At autopsy great difficulty was experienced in reproducing the hip dislocation which had been

spectical upon only a month before
Anatomical study of the kines showed the subcitaceous tissue militrated with fat and the muscles
had not fatty but well developed and in normal
postion. There was no dislocation of the bucquteadon. A post are was found under the quadrictys.
The patient was entirely cartifaginous. The ferroral
condyles were narrow and the internal was loope
than the external. The mennets were thickneed, and
the upper artifactural surface. If the this was inclined
forward and downward more than normal. All
spitzentions internations were normal.

KILLOOG SPEED, M D

Dojurier C and Weil, M. P. Gonorrhoral Arthritis of the Kney Failure of Serotherapy Arthriti easy Cure with Conservation of Moreacent (Arthrite blemorrhappes du proof chec de la strobbinger, arthritione, gestions c comerca lon des monvement). Bull et sein Sec de cler d' Par 9, 1, hts., 1005

The author operated upon three case of goodnical attenties of the knee which be hall restrict successfully a thurter articular topectoms of serior He opened the joint, cleaned out the detertum, such and the surfaces as the their and closed the capsule conpletely Mobilization was beginn early and good lunction with only alight imitation of movement is obtained.

In the discussion, Bary and Rouvillors stated that in some cases of gooderhood arthritis mitra articular serocherapy in very edificacions, but in others is without effect or harmful. If local serocherapy is not followed by immediate success, it should be abandoned as it may cause irritative arthritis.

Thery reported that he had treated three similar cases by arthrotomy with ideal results

RUDOLPH MARK, M D

Lewin P Juvenile Deforming Metatarsophalan gesi Ostsochondritis, J 4m M Asr 0 3

In purelle deforming metatarophaliagged ontochondrits the datal epophysis of the metatarnal is flattened, the neck is broadened the epiphysical line is irregular and the joint space is widened. There is smallly diminished expense of the phaliagueal articular surface and also possibly the presence of loose bodies.

The condition is thought to be analogous to Legg Ferthes disease of the hip Koehler's disease of the scaphoid, and Ougood Schlatter disease of the tibia It was first described by Freiberg lin 1913 as infriction f the metatarial head. The author has collected sixty three case reports from the hierature and adult is, of his on.

The condition has been attributed to trauma, disturbances of circulation, and infection. Fresherg, Campbell, and others believe that trauma is the cause.

The second toe is the one most olice affected, the explanation being that this metatarial beam the brunt of the impact in jumping on the balls of the feet because it is longer than the them. Legs regards traums as the cause of a circulatory disturbnce which results in attrophy of the epiphysis. Aniausent turboire the lesion to blocking I the vessily randed to be selected to the explanation of the control of the control of the explanation of the control of the explanation of the explanat

The disease is most frequent in adolescence. The symptoms are pain, tenderness, and limitation of motion. Swelling is usually present because of exudate but no increase in joint tension is demonstrable.

It is possible that certain cases of metatarsalgia, especially those of children, may be due to this condition

The diagnosis is based on the history and the reentgen-ray examination. In the differential diagnosis, metatarsalgat, percentus, fracture, dialocation, syphilas, and Still a discuse must be considered. The prognosis is excellent, the symptoms lasting only a

iew weeks
The treatment is similar t that of metatarialgia
rated from weight bearing

rehel from weight bearing.

The first case reported by the author was that of girl of it years. Fun had been present to the base fibe third toe for six months. There wer no visible or palpable boormathies. Tenderness was found over the bead of the third metatarnal. The diagnosis was confirmed by the \tau ay. A cure was affected In five weeks by the application f splint to this toe and the size of crutches.

The second case was that of put of years who complained of pain in the ball of the foot and tender ness over the lead of the second mentarizal which had been present for two weeks. The diagnosis was confirmed by the reentgem ray. The symptoms disappeared in about two months under treatment with the deep-therapy lamp and alpane High.

WILLIAM A CLARK, M D

SURGERY OF THE BOXES, JOINTS,

Hey Groves, Puttl, MacAustand and Others Descussion on Arthrophesty at the International Congress of Surgeons. Brd M J 021 M.

Arthrophasty was defined as an operation per formed upon an ankylosed joint to restore mobility Hey Groves, Putts, and MacAushad agreed in

general on the following points:

1 The patient should be f an age and state to
withstand long and traumating operation, mentally cooperative, and ble to enders technole hospiralization.

a The most favorable results are obtained in cases following trauma, pysimia, or genecoccal infections in which the infection is at an end

3 Omeons ankylous is exser to correct than fibrous ankylous. Ankylous of tuberculous origin should be operated upon only exceptionally.

4 There are absolute indications for enthroplasty in ankylom of the mandible, bilateral anky loals of the hip, ankylous of the elbow in extension, and polyarizoidar ankylous.

5 In cases of ankylogs of one knes, arthropiasty should be dyssed with caution as lateral stability

and security are of first importance

With regard to the development of the operation, special reference was made to Barr's or's in the command page bridger and Murphy' drocacy of the pedianchited flap. Posts and Page have found the use of fire facts most soccursful. Seatuals in the operation are the formation. Seatuals in the operation are the formation of sufficient gap between the boose ends the shapes and covering of the amendat facets, the provision of higuments and synowal fluid, the prevention of mights probletty and the restoration of functions.

under mounty and the resolution or include.

The first passive motions should be begut twelve to fifteen days after the operation. Sanby of Lyons stated that surgical modulations of anhy losed joints has been little door in France as Other's modulating reaction will continue in vogue. He maintained,

however that arthrophesty is an improvement Elmaile of London contended that the ankylone of any metrodual hop, knes, or ankle in good pointion is perferable to the results obtained by any form of arthrophesty but advocated the latter in cases of

ankylous of non weight-bearing joints in which the ceaser to obtain free movement Juneal, stated that in arthroplastics done in Ka

Jimsel, stated that m arthropastuse does in A. h. a choic in Prague the interpolation method the use of the grafts has given good results.

R. C. Loussel, M.D.

Heorust Tatal Subperiostral Removal of the Clevicle in a Case of Ostsomyelith and Regimeration of the Bone (Ablaton totals son-phroatic data cle scale due to a code on the code of the co

In ostcomychits of the clavacle in adolescents an iscuson through the percentain the entire length of the bone is unselly sufficient t effect cure In some instances, however, the inflammation centus, ties and a sequestrum. I the entire home is formed.

In the author's case of acute outcomethin the sequents and the claratic were removed on the full because of preservation of the personaum of t

Page, G. M.: Four Cases of Flexion Contracture of the Forearm Treated by a Muscle-Siding Opertion. Proc Rey Sec Med Load 1935, 3rd, Sect Othop, 41.

The operation described consists in detaching the origins of the entire factor group of the forms in He factor isospic pollum is continuted, the process of muscle stripping in carried cross the latter caseous membrane so that the attachment of the humb factor to the front of the reform all also humed. The longital factor, it divided all percentify The hand is put up in the corrected position on a notal spiker. After days latter the sphate is replaced.

by a plaster mold
Voluntary control of the muscles as lost or be
comes very weak but a recovered gradually after
less days Throughout the containments, physictherapy is employed with proper splating

Of four cases treated is the manner described the results were good in two, fair in one, and wasseconful in one Reporter 5 Report, M.D.

Colorina, P. D. Hamstring Transplantation for Quadricoyn Paralysis. J. Book & Josef Surg. 1913.

The athor revisived to cases I detaurate the end results of transplanting one or more largetime for loss of function in the quadriceps. In security right cases transplantation of the beings was desired, and in two three the same himstrings were used. Severity five of the cases were operated upon by Matinase.

In parely se of the quadraceps alone without sesociated joint deformity an ideal result may be obtained. I cause of deformity such as knock lines, etc., the deformity must be corrected first. In salling, extension as assisted by gravity

In waiting, extension is asserted by gravity bold the leg extended

I some cases stabilizing operation on the foot is accessary to permit the use of the transplanted lamistings. In twinty cases satisfactory is performed. The technique was the same for all cases. An incision was made on the outer or more said of the thigh, extending from about the middle to little helder the later. The lacray issertion with

section of bone or curtilage was separated from the head of the fibula with the short trachment of the seeps to the femur care being taken not to injure the permeal new. The muscles were exposed high cough to permit pell in a direct line from the ischall thereasty to the patella. An incason was then made to expose the quadraceps, tendon and the transplanted tendon was draw through the subcutaneous tuned. The born fragment on the end of the tendon was secured under the pernosteal covering I the patella by means of languages outures.

The 'ounds were then closed with plam cat right and a cat was polled from the toes to the grow with the knee m full extension. The cast remained on for from art to eight weeks a transacted on for from art to eight weeks a polled was then retained as splint and curries beginn to bed. After three or four weeks a three two allowed to bear weight on the limb, but were a supportung beare of ne several mo the

The athor draw the following conclusions

Satisfactory results are the rule

 Deformity should be corrected before the transplantation is done

3 Transplantation of the biceps gives better results than transplantation of the other ham strings, provided the biceps is strong

4 Negative results may follow if the hip extensors are also paralyzed Josep Mirrowatt, M.D.

Lagel, H. The Operative Treatment of Hallux Valgue on Physiological Basis (Zur Frage der operativen Behanding des Hallux valges nach physiologisches Grunchestern) Arch f sether Unfall Chev. 03, 31, 437

The author using Godh's material, investigated the question as it whether the old ballin valges spenion of Huster as practiced at the university exthopede clinic, compares favorably with the new method of Lodioff and Holmann which is founded upon physiological basis. The operation removed in Germany by Rose and in France by Spre and later spatientatedly employed by Huster counts in removal of the head of the first meta-timal Godh practiced it for twenty-dive years in someone cases with excellent results. The author returnment the case treated meta-period from 9 for 900 T engittern of these he dids three more freen Godh's private practice.

Engel comes to the conclusion that Hueter's method of operation, which is still most i vored in Germany and France meets a th the physiological demands established by Ludloff and Hohmann It does away a th the deviation of the great toe, a th the formation of bursa and exostoses on the mechan pole of the head of the first metatarsal, with tendon transplantation, and a th subluxation and turning of the tos. The shortening of the first metatarmal through the removal of ts head, and in some cases of a portion of the adjacent shaft results in balancing of the fixed and the elastic forces operating gainst the valges positio of the great toe In injury to the supports of the arch, perticularly the adductor balluces, cure of the spreading arch usually does not occur. As rule the mechanism of the great toe is almost entirely extored as regards its active and static function in the course of a year and a half. Therefore in the author's opanism the old litheter method of operating for half. valgus is as physiological as the method of Ludoff and Holm in The results busined by Gocht with this method were artifact tory.

FRACTURES AND DISLOCATIONS

Henderson, M S. Non-Union in Fractures The Macure Bone Graft J & M Ass 923 incu, 463

This article is based on a review of a case of of one minon called from approximately a good cases of old fractures consuting of mainnions, delayed unions, etc that have been observed in the Mayor Climic daming the last ten years. In making this classification is sharper line has been drawn than formerly in separating the cases of non-union from the cases of dailyed union.

One hundred and eighty-four of the 2s cases er traced union has occurred in 38 (75 per cent) and has failed to occur in forty-sax (5 per cent) Twenty-screen patients were not traced, and ten are still under observation.

PINDID-OS DE CAMPO MA 023

) mu	C	Ξ	C==		Feel	Net	Code
			X.	Per	-	ed.	***
Femur Hip Shaft Tibia Humartus Radins and sina Patella Ulna Clavicia	49 54 11 2 8 0 80	33 44 47 37 5 4 9 7	2000	57 5 5 5 5 6 5 7 6 5 5 7 6 6 5 7 6 6 5 7 6 6 6 5 7 6 6 6 6	14	4 8 3 5 4	3 4
Total		84	1.5	75 0	46	7	

The fractures unloining the different home are desinated ideal as to ther sit etc. There were mue cases of non-umon of incture of the tible which had bee sustained at birth or in charge Operations performed in air of these before the agof puberts in creal figulars, but no the cases operated upon after the age of puberty union resulted. On the beass if this experience with intractable non union in children it is thought advanable to postpone operative measures until after puberty maintaining the length and absorment of the leg as well as possible by the use of breast of

It as found that detailed statutical study was of lattice on on shee with regard to the etoology. All of the patients were free from constitutional disabilities which might have a hearing o the condition, with the exception of certiful fivorist cyclics. Syphias was a neglipible factor in the sense. Except in fractures of the hop, the interposition of misside

combined thesevere testing and crushing trauma was regarded as the most probable common cause of non-union

A chemical analysis of the blood as made in twenty-one cases. I certain cases there was suggestion of lowered magnesism content, but other

wase the findings were negative

Attention is directed to the f ct that many failures are due to the highting up of infections in did chronic cases, and that it is well to because of the recently healed strong, the near that it well, both bent that per saits, and seem but my feel of the part is near that majority of cases the mains, "grall is preferred the nationary of cases the mains," grall is preferred the outcoperustrial grall is used. Rect has discussed in the part is a savel. Rect has the part is a savel. Rect has the part is a savel. The part is part in the part is the part is

In reviewing the cases as a whole the author

states that the incidence of non union was strater

in the feman than in any of the other books, there were forty ununited fractures of the neck and thirty of the shaft of the femur. The tibs ranked next with fifty-four, the humerus had forty-one the radius alone had twenty the radius and time combined, eighteen the patella, nine the ulas alone eight and the clayicle one. The cames of non amon are usually indeterminate but the later position of muscle fibers, fixation which is inadequate not only in quality but she in quantity (time) too early weight-bearing, and accellens in spections and examinations when the union is delayed may be mentioned as chief among the local causes. In the author, experience general or coastitutional conditions ha rarely been of coasequence. It seems paradoxical that any umber of fractures may beal in a frail, pale, orn-out presr ing child with osteogeness imperfects, a hereas not one may unite in large, robust man Severe crosh ing and tainting trauma may so devitalize the there and lead to the formation of scar turne as to be factor in the production of non-union. There is also the inexplicable type of non union occurring even though the ends of the bone are in apposition, the position is all that could be desired, and the treatment is in all respects satisfactors

The erage percentage of successful results in the series of cases reviewed was 75, ranging from 57 5 in fractures of the hip t 913 in those of the radius. Named in the order of best results, the bones were the patella, radius, ulna, tibes, humerus, shalt of the femore and neck of the femore. The failures, the author beheves, were due charfts to the use of a small graft, improper and madequal in ternal fixation of the graft inadequat external fixation, and sepais. There were twenty two infections following operation, approximately Def cent. The fact that infection occurred in ten of the 15 fractures in the lower extremities and in twelve of eighty eight fractures in the opper extre matter suggests that the lower extremity is more resistant to infection than the upper. The ranty of injections following extensi operations on the

feet substantiates this vice

The massive graft with proper nateral frazion the selection in the personally indered case is the most opportune time for operation, the renders of protograft operations, the montenance of see quate postoperative fination, and, in the leaver extremity the a oldance of the early eight berring will me tensily increase the personal policy of the control of the contro

Descentps, P The Operative Treatment of Acromis-Charlenber Dislocations (to treatment saglant des fruitoes acromo-charcelares) Ball d sale See de che de Par 9 3, ales, 344

The other has operated upon it cases of acromocelarculai dislocation complicated by repture of the corace claveciar ligaments. In this over form of dislocation the most important conditions the rupture of the higaments. In the connection between the cla side and the scapela, the facilities due to the ligament is of more responses than the must be rustowed as order that the absolute rules

may be moved on Mee boy the thorax. In four cases the author brought the coraced process and the charule together by means of strong wire suthout setteming the clavicle t the acrossom directly. In to cases removal of the fire an accessary later. In the last one, strong all, was necessary later in the last one, strong all, was need. This torus gitter few draws, but not until publi-

cient comolidation had occurred

The immediat results are satisfactory in every instance. The only patient whom the other has been ble t trace for long time has full modelity of the shoulder.

REPORTS MARK, M.D.

Davie, G. G. The Treatment of Dislocated Semilunar Carpal Bones. Surg. Gyare & Olst. 1973, XXXVI. 5

When dislocation of the semilunar carpal boss is diagnosed minechately it as treated by manufaction. When the diagnosis is not made until after number of weeks or months and when the dis-

location cannot be refineed by manupalation, open reduction with the use of a semidumer alid in medicated. When the condition has not been days noted or operation has been refused or has fasted, the semilums bone should be removed. Davis reconnexed the following method for open reduction

An unuseen is made over the devail surface of the first, and firsten on the sain and instence on the hand with countertraction on the sam are employed to increase the space her ent he bone. A special mixel strel skild curve do not flat surface as these interests between the closest, edged bones so that the distal curve of the skild engages the lips of the semilinair bone and the premission curve sides of the counterful terms of the co

skid, it is dramble it remot the hone by an anterior inclusion rather than to ender or to take it out through the usual dorsal incusion employed for the open radiaction.

Four cases are reported and the article is illustrated with fifteen roent genograms

S C Wordsmann, M D

Dujerier C.: Pseudarthroeis of the Neck of the Femur; Osteoperiostaal Grafting; Cure (Pecudarthrose du col fémoral, greff ostée parsostique prénants Ball et mêm Sec de lar d' Per 9 3 rin. 10

The case reported was that of man an years of up who iractured the neck of his femur in fall Foor and one-half months after the condent the author resorted t outcoperiosteal grafting because of non-union. The patient was then put to bed

without supporting apparatus After thirty eacht day he was able t raise his beel, and at the end I three months was hie to all without pain and the clinical and \ ray find

men ere very saturactory RUPOLPH MARA, M D

Walther: The Result of Suture of an Old Frac ture of the Patella Followed by Suture of the Patellar Tendon Thirty Tw. Years Later (Ré-mitat d'une sutere pour fracture ancience de la totale, pare d'une rature du tendon rotubes trent deux ans près la derreire codratico) Bull el men Sec de chir de Per 9 3, xlix, 93

After treatment in March, 1890, for fracture of the right patella by means of Duplay' hooks, the patient hose case is reported experienced pain in allung After a second fall, when he first consulted the author the knee was stiff the two patellar frag ments were distinctly separated, the upper frag ment was immobile and the quadraceps as tro phied Atoperation the upper fragment was let dow by dissection high up on the tendon, the fractured surfaces were freshened, and the fragments ther did ared together with pilver wire (The not begin to use horsehair for bone sutures until 601) The leg was immobilized ufficiently f bone union and then given everuse. Ultimately the patient returned to his work f delivering heavy been of coal

In March, 19 he fell from ladder with sack of coal on his shoulder and a th his leg doubled under him After this accident there was extensi unfil tration, and distinctly pulpable deperation the noted between two fragments. At operation the patella Its cup shaped infiltrated end had suggested an "Oper fragment The old fracture showed solid bony union. The sil er wire sutures were removed Following suture of the quadriceps tendon t the patella the national made complete recovery and returned to his work. In rost after service through the war the functional result was still unimpaired Champsonnière believes that this case is the first

direct verification | f osseous callus after suture of the patella. WALTER C. BORKET, M. D.

Labey G. Fracture of the Internal Head of the Tible with Great Dusplacement; Ostsosyntheels Early Walking (Fracture unkondyhenne mterme du tibia vec gros deplacement ostéosyn-thèse marche précoce). Bull et mém de Sec d her de Per o 1 Iliz. ot

A mri 16 years of age was struck by an automobile and fell upon her right knee sustaining an oblique rucular fracture f the right tibul plateau, including the spine, and inward displacement of the frag ment and the lower end of the femur The external

ndyl of the femur being wedged in the gap be tween the articular surfaces of the displaced tibial fragment and the external half of the upper border of the tibus, the outer half of the articular surface

of the t bus lost all contact with the femur and appeared to be displaced outward Under stonal angesthesia induced with no ocaine

a horseshoe shaped musson with its base upward was made and extended laterally from behind the femoral condules and antenorly under the tuberos its of the tibus. The patella legament was laid bare, and the anterior tuberouty detached and lifted up with the tendon t expose the joint. The joint contained clots of blood. The external condile was disensaged from between the tw fragments of the consisting of the internal tibual plateau was brought back and retained in position with Lambott clamps and the displacement of the femur w

amilarly reduced. The fragment was fixed in place by a long screw of wood with a head plat inserted transversely. The anterior tibual tuberosity was reapphed and fixed with t nails. The leg was then put up in extension

The statches were removed on the eighth day and mobilization and massage were begun on the following day The patient began to walk on the fifteenth day and on the t enty-eighth day walked without cane and ascended and descended stairs Extension was complete and fersion was possible almost to a right angle. The postoperative \-ray examination showed perfect restit tion of the articu lar urface of the tibia but alight posterior displacement of the internal tibial plates

I the author opinion, open reduction by the transpatellar rout of Algla or the trans-tibual rout gives the best anatomical and functional reconstruction. WALTER C. BURKET M D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Hinman, F., Morison, D. M. and Lee-Brwn, R. K. Methods of Demonstrating the Circulation in General as Applied t. a Study of the Renal Circulation in Particular. J. Am. H. Am. 9.3, [arxiv. 17]

The exact reproduction of the vascular ayatem by unproved methods of unyerone and photography aspertor to the heat day uses and dupraments selected. Hinners state that the celludin spectron method is best for demonstrating gross detail and the dyr method is best to reproduce the minute capillaries. When preservation of the specimen is sought to be attrium pulping. A-ray study of the

circulation is most desirable Morson describes a modification of the knuanakasa and Huber method of celluloid corresion. An injection mass composed of relialoid in accione as used. When this is injected into cavities or blood vessels containing moisture the refluioid is precontated out and forms a cast, and the ter readsly combines with the acrtone. The trereo is then macerated so that only the casts of the casels remain Solutions are made up of acctone, rying percentages of celloidin (the coarser the vessel t be lajected the larger the amount of celloidin) and camphor and placed in stock pressure bottles recovided with tw holed rubber stopper with glass and rubber connections. Thoroughly dried celloidin (Schering) or washed X-ray films are cmployed, the latter for coarse vessels \arrows dres are used to color these solutions cobelt blue cunnaber (red) etc. Alkanin (red) is the best for capallary injections the finer the vessels t be injected the greater the quantity of die necessary

The solution is forced int the venicle by means of an pparatus consisting of Wolfe bottle with mercury manometer attached to a compressed str tank. Standard pressures are worked out for the injection The casels, which must be closed curent, are first washed with saline solution. A cannels is connected with the vessel, all air is climinated from the system and the required pressure is polied in the bottle. For gross specimens the injection is continued for thirty misutes at full pressure and the positive pressure is maintained for twelve t twenty four bours. When large vascular tranks and the finer ramifications are to be mjerted, a weal celloidin solution is injected first for about five resentes and then a heavier solution is used. Capellary injection specimens must set for from one t three sours, and courser preparations for from twelve to twenty four hours Corrosson or digestion of the surrounding tieses is accomplished by immersing the specimen in 0 3 t 0.5 per cent bydrochloric acid for three or four days or 75 per om hydrochloric acid for from twelv to twenty night bours. The macernated tissue as removed with a for stream of water. The specimens are mounted in witer formaldchyde, and glycens under atch glasses on plate glass or in rectangular jars.

On the basis of specimens similarly prepared, except that they are kept in a later bath at body temperature during the largestion of fine Injections are t be done Lee-Brow describes the rountgenological study of renal and other vessels injected with substances impervious to the X-ray completeness of the injection depends upon the viscouty of the rajecting fined, the nature of the specimen, and the pressure. Lower pressure a required for east than for artures. If the roentgenogram is to be made immediately after the injection, an queous solution of barrum sulphat may be used for fine myections. If immedi te roentgroography # Impounble or larger easels re t be demonstrated a thin suspension I barrem sulphate in cent aqueous solution of sodium bromide is used For repeated roentgenograms, gelatin kept

above body temperature is used unstead of water For the demonstration of capillary distributions aqueous solutions seem to be superior to gelatis solutions. An aspecus solution of Berha blue is best as it allows complete aspection cause no ditortion, and is simple to prepare, chemically iteratand not affected by reagents used subsequently.

Lorn S F orr, M D

Stincer, L. Assessible of the Obturator Artery and Their Sergical Importance (Lassasmissi de la artera obturatria y mumportancia quisurpos). Rei de med y coreg de la Hobens, 9 1 xxviii, jă

The wither calls ittention to an anomally of origon of the obturator artery hick he does not find described in the textbooks. The obturator artery may arise from the external shar, the epigastric or very rarely from the femoral artery either directly

or from 1 tunk common t the organize.

The anomaly observed by the author was a very thick and tortwoor obtunator arrivey amen from the femoral artery. From to ongs me was directed speward and inward, crossed the femoral vent, and passed through the crusal ring it the pelvis there, after curring several tunes and without priming any other vessel; it is passed to though the crusal ring it is pelved to the subpulse conduit and because distributed in the usual. y. This anomaly was unitateral and occurred in milks of the common that the crusal is the common terms of the common terms

The possibility of arternal anomalies should all ways be forms in mind. The anomaly described may compress the femoral wen and by obstructing the return circulation cause ordens in the lower harb.

Firsen, A. The Use of Physiotherapy in Intermit test Chindication (Dee Anwendung der Physiotheraps ber Candicano intermittens). Wrateckelnes Dela.

The author dwides his cases of intermittent claustion into two groups, those in which the luming is due to arterioricleroids alone and those in which it is not be considered and neurits. The cases of the fart group he treats by dathermy applied scally and over the heart and by d'arron sination and hot an baths. In those of the second group he may be greatly and the control of the second group in the control of the second group is a second group in the control of the second group in the second group in the control of the second group in the

In all of four cases eported there was very maked improvement in the patient's condition, and in some of them the impang disappeared entirely.

Any Houst (2)

BLOOD AND TRANSFUSION

Bertield E., and Schinz, H. R. Blood and Serum Examinations Immediately Before and After Rocatgen Irraduction (Blt und Serumuter achangen amnitelbar vor und nach Rocatgen bestraking) Strakenkerpte 9, 3 xv 84

Studens of the influence of the \star a on the blood which have been made to date have been directed running toward the changes in the morphologic I beloof picture. The decrease in the number I seconfice after an instal leccocytess which is a function of the probably merry a pseudoteneop teast. A did not be the probably merry a pseudoteneop teast. A did not be the probably merry a pseudoteneop teast. A did not the theorem to be a probably merry as a probably merry to be a proba

blood are squally measure to the retree authors are significant and the state of the state of

Giffin, H. Z., and Hollow y J K. Hæmorrhagic Perpura. Hal Cl. N Am. 0 j. 4

It is pointed out that usually normal coupul ton time a prolonged bleeding um and an intructic dot associated with marked decrease in the blood platelets are characteristic of harmormals propora, and that it is necessare circlish to distincted this condition from harmophilia as orth arily the former is amenable to support measures.

The reduced plat let count (thrombopenia) is apparently the characteristic leature of harmorrhagic purpura since severe bleed mg apparently does not occur usuil the platelet

count is below 60,000 for each cube millimeter Theoretically, the reduction in the platelets is the result of rapid destruction, and not of decreused production. There is reason to believe that the proceas is touc, due primarily to some infection, that the tourn which acts on the blood of perhaps also on the exich is material of the original organisty. I product an abortive substance designed organisty is protect. Sphenerismy has been per in essentially the function. The karnols up that yet conof which the spleen is the import element. I several sever cases the results he is been receiled.

Elimination of foc. I infection in the more and transitors cases in advised. Transitionous are usually necessary and re-fective in improving the arrorn A case report and unbulstom librariat the full it of therapeuts measures in sweet cases. However in selected cases splenectomy in conjunction with transitionous before and after operation present to be if saving procedure. One pate it mentioned is in

hi saving procedure. One patie it mentioned is in veellent health three months after this operation.

J. K. Hollowin, M.D.

Marsión Hemorrhagic Con, plications Fellowing the Use of Blemuth Salts (Accdents bemorrigeos en exfernos tratados por las sales de bermit) 4 h de sed resg y especial 9 3, 21, as de hacad neld-quirag espail 170

M rand reports three cases I severe hemorrhage occurring in patients treated with bismuth salts. If concludes that in the cases of persons with a tendency to bleed, the use of these salts should be avoided entirely or they should be employed in with great cation. W.A.B.rx.

Peterson M. F., and Mills, C. A. A. New Method for Accurately Determining the Clotting Time of the Blood. Arch Int. Med. 9, 1, 2220, 88

The m thod described is based on the fact that hen dotting first begins the blood ceases t flow back ail forth capillary t be Capillary t bes with an unside diameter of from o fit o 8 mm. re drawn from clean glass tubing and cut int about

m lengths. The blood is dot used from a statisound of the finere or ex site; the first drop his been sped off. Let be is touched it the second drop and the blood allowed to flow in bir explain, traction, about 15 in of the table being left mafilled. The time is control from the pressure of the second drop over the wound. Stight pressure to cause the drop 1 form rapidly as permissible proxisited it is pilled it little distance from the wound.

After the tube has been filled, it is placed in one of the crows of the pain and completely one end by closurg the hand. This gives uniform temperature somewhat below that of the hold of host 3g degree C) and obtaines the necessit for a water hash or chamber of 3 nort. By maj opening the hand slightly for observ tion when invertigate the tube one may not the end policy that the one may not the end policy the some maje to the end policy without changing

the temperature or disturbing the tube. The tube abould be grully inverted every thirty aeconds, the time when the column crosses to move being noted jurying and shaking tend to prolong the clotting time and should thursfore be avoided

MORRE II KAR MD

Guthrie, C. C., and Hack, J. C. On the Existence of More Than For Isosagii this Groups in Human Blood, Bull John II plan Hap Balt on Ed. 181 18 50, 28

This interesting and important study of the reactions bet een the bloods of different persons as begun in connection with the study of the blood of a patient (C. T) with sickle cell anomin concerning the tive of whose blood there was some doubt,

When the patient and cells were matched it break serum from Oronga II and III, they are aggiulinated by the first and not by the second, industing that she belonged it Group III. However, when her serum was matched a the Orong III offers, and her cells with Group III serum, there was no aggiuntation in the first instance indicating that abe belowed if Group I.

Repeated tests of the patient's blood with known members of the four groups showed that he serum acted as the serum of Group I 1 and not against the cells of any of the other groups, but that her cells behaved as those in Group II 1 we were against matel by the serum of Groups II and IV Cross-argitrum bloot rest after the proof of the country of the cells of the cells of the cells are cell

It was found further that the blood of the p treat s brother married sixter and one of the married sixter's four children acted like the patent a blood In other ords, four persons belonging to the same (anely were found showe red cells acted his those of persons belonging to Group III and shows serum

acted like that of persons of Group I

Although the patients arram repeatedly failed taggitunate the cells of members of Group II patient (D. J.) considered as a typical nember of Group II we certainthy found whose red tells were against tell by C. T. serum, not only once, but repeatedly over a period of it months. Further, among 4s hospital patients thirtees were found whose blood acted his that of members of Group II except that their red cells, like those of D. J. were againstanted by C. T. serum.

The blood formule of the four groups and the formula of the blood of the patient (C T) re

shown in Table I

TABLE 1 -BLOOD FORMULE OF THE FOUR CHOUPS ACCORDING TO LANDSTEINER ET AL

≓ ŀ	, , , , , , , , , , , , , , , , , , ,

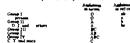
Absorption experiments were then carried out as follows:

Weshed red cells were added to different blood sera in order to absorb the aggletinating present. After to bours the speciments were centificationed and fresh, washed red cells added to the clear sertion order to determine whether any aggletinate were left. T ble II illustrates the nature of these expen-

TABLE II --- PROTOCOL OF PERSONNEY 24

THOSE TROJUCCE OF CONTRACTOR IN										
	Tath	5a	संभ	Subsequent naglectuation with sel- cells					2	
	54 57	8 B3	#1	n 8	ال رابة				+	
		(1 to 1)	(II)		ars.	(D J)	مان		+	
		d by	THE S				(L, E)	CT.	Ιİ	

From such absorption experiments the asthers conclude that there are at least three different registrations in binsum blood serve not there again the such as the such that the such tha



The authors believe that some of the remaining mineries crast is: all and surgest that the apparent discrepances and absorpail behavior of certain bloods reported by Jansky Ottenberg Brem, Hooker Anderson and others may be explained by the facts they have brought t light

They suggest that some of the reactions observed following transfusion from denor t recepent supposedly of the same group may be due to failure t saign one of the other to the correct group because of the inherent limitations of the method sow is general use for grouping anknow bloods

From a practical standpoint the authors emphasize the importance of using fresh serum and cells in making the tests for blood grouping, rather than stock sens which may rapidly loss their aggregation tive power and outline a method of determining the exact blood formula of prospective donors. The method suggested involver a considerable amount of careful laboratory work, but its importance must be admitted in view of the facts duclosed by the anceturation here reported. Surveys L. Korn, M.D. anceturation here reported in

Ciffia, H. Z., and Haines, S F : A Raview of Prolessional Dozors, J Am M Att. 9 3 lxxx, 53

A group of professional blood donors wer student a select to determine whether or not they were being permanently lajured by repeated biredings. Brey lad made from one to thrif, free donations, smally of goo com each. In the males no agmificient charges were found in the hemopoloin, the crythroots or lexcocyte comits, or the retrealsted and districtable what cell counts. Hany of the females lad moderate secondary anemia in some cases has so not of proportion to the amount of blood ribdirws. Many donors It better after the dons must show the case and again in weight was a common to the contract of th

scurrence (50 per cent of the series)
Blood volume studies made in the cases if five dosors to had been used frequently showed to segmicast charges in the plasma and cell volumes. Seven
donors ith hypertensio showed no permanent
charges in the blood pressure. A slight increase

the blood pressure was a common finding in those he had had a normal blood pressure before they are blood. Before donation, a history and complet physical examination are obtained and an inquiring much in the social habits of the donor in all cases. Complete blood examinations and Wassermann tests are used foregreatly. S. F. Hanra, M.D.

Laney F W A Citrat Method of Blood Transfusion Devised t Minimbse Post Transfusion Reactions. Canadian M Air J 9 3 Min 550

Departulaction with the citrat method of trins fusion has resulted largely from the reactions that may follow its use. These has a been timbuted t the manipulation of the blood which brings t int contact ith foreign bodies, agitation buch cools it and its exposure to bacterial contamination Laney describes an apparatus designed t liminat these disadvantages which consists essentially of I liter bottles-one to serv as ontenal re ceptacle nd container of o per cent citrated blood and the other used for phy sological saline solutionconnected by 1-shaped glass tube t three a glass stop-cock B) manipulating the stop cock the contents of Bottle \ or B can be draw Trings by adjusting artery clamps controlling the Sow and then, by turning the stop-cock, the contents of the syringe may be presed through the nd accells to the recipient. The blood and saline solu tion are kept t body temperature by placing the bottles in a beam of arm ter

The results obtained by the use of this pouratus balacit that post transfusion reaction can be largely prevented by eliminating room in technique.

**Will: \[\text{II results} \] \[\text{II} \]

Carrington, G. L., and Lee W. E. F tal Anaphylasis Following Blood Transfusion. Aux 5 rg 0 3 luvus,

I recent years blood transfesion has become an exceedingly important therapentic measure. Rections arying in seventy occur after all methods of transfession in general use at the present time. Whether they are more frequent and severe after the citrat method than firer the transfusion of shole blood is still under discussion.

Explanation of the reactions following transfusion are unsatisf ctory. Factors of importance are

Too most introduction of the blood, which

may embarrans the circulation

The use of new rubber tubing. The effect of such t bing may be prevented by sorking it in nor mal sodium in drovide solution for six bours.

3 Incomp tibulty, between the blood of the donor and the recipient. Under such circumstances the donor a corpusales are hemiolyard by the recipient serum or the recipient corpusales are hemiohard by the donor a serum or the corpusales are cach are hemiohyard by the serum of the other Hemiohyara is preceded by aggl tination and the latter is the more rapidly (1 of the two A donor may be compatible for one transfusion and incompatible for one give embeygenth).

I the opinion of Lewisohn Drinker and keynes the citral method is as a tisf ctory as my

The thors report cuse of f tal cut anaphy, lactic shock, occurring one hour after a first transfusion of goo on oldered hour after a first transfusion of goo on oldered hour after a first transfusion of goo on the control of the co

locality. There as no history of sethma or any

other type of protein sensitization either donor

The case preated t be one of true

Circ J GLAPPE, M D

or recipient

cute u phylams

Penfield W. G., and Teplitaky D. Protonged In travenous Infusion and the Clinical Determination of Venous Pressure. Art S. rg., 9, 1

The authors k devised an practites for the prolonged inter arous administration of infesions in cases in which it is accessive 1 force fluids. This programs is priced h week and in the treatment of patients be are emble 1. Lik large quantities for a make 1. Lik large quantities for a side to the proposition of the confidence of the co

For the continuous infusion the authors recommend physiological salt solution or less than 10 per cent glucose solution. These should be prepared daily at h fresh datalled water and should be treed.

within t enty-four hours. Great care should be taken in the stemination of all apparatus and intensis employed as well as of the solution, in order that there may be no reaction. The tubring must be carefully handled as it is one of the most frequent causes.

of traction. In at least to of the authors cases this severe reaction the use of new tubus properly proposed was largely responsible. There factors in the reaction are (1) the temperature of the infusion field. (2) the hydrogen ion concentration of the solutions, and (4) the introduction of iserting authatance int the blood. A number of expensional hand, and the solution is the solution of the factors of the

The softsmoot may be green from to o 1 foot boom without tuning the patient I as the surforce cases the rate of fires was from 500 to 500 cm per flower at much as 4,500 cm has been given by this method in three or four hours. The venous pressure is considered the best index of the patient's condition and the effects of the infusion. A rising pressure is destrumed at the beginning of the infinite soon, at the end of the first and encoded half hours, and the soon of the first and encoded half hours, and the condition of the first and encoded half hours, and the condition of the first and encoded half hours, and the condition of the first and excellent hours, and the condition of the first and the condition of the condition of the first and the condition of the c

In case with marked dehydrators the admisnration of Burg cunstitutes of physiological salt solution or Ringer' solution by time method is of great value. Gilicore subtracts is not so satisfactory above, that in the case of normal persons of great shown, that in the case of normal persons of great of greeces per bour for each kingram of weight can be given intra-resonally without the appearance of greeces are turne. Anything above this amount will cause glycosum: I the diministrators of the great case of the case of the case of the to maconium during the fourth loop.

HABOLD VI CLUTE VI D

LYMPH VESSELS AND GLANDS

Mahon, G. D. Elephentiasis: A Chulcal Review and an Attempt: t Experimental Reproduction. 4st J. M. Sc. 923, clay 275

Liephantians is characterised by hypertrophy of the skin and ubertaneous tessio. It was all disturbances and resulting exidate. Bacterial at turns have been positive if thing the recurring, active citaneous reactions, but in a lew cases there are as local inflammation manifestations.

Block of the lymphatics by fileria with subquent ordems, does not explain the hypertrophy of the connective tissue so characteristic of deplanmatic

The disease begins following lymphangula cells litts, detrinition, or some other local mainfestiates of local infections but sometimes its onest use is slatous.

The disease is universal in distribution, but is

epidemic only in tropical and subtroposal reposa. The author student furthy-three cases in the Majo Clasic. The youngest patient was 12 years of age and the sidese 35. In patiently sate 17 years of age and the sidese 35. In patiently, early local restricts the was a well marked hymphocytic subtraction in the deeper layer and the aponeurous showed restricts thackening with more change in the blood cases of the deeper tastes than in the chorum

It as therefore concluded that in many cases of elephantasas the influentary reaction secessity to produce cell prohiferation is caused by low grade organisms confined to the subertianeous these and of insufficient irulence to produce local or count tetronal reactions.

The experimental production of elephantarism by

dissecting out the lymphstics of the groin, kgaing the femoral veins, and injecting organizes obtained from two cases of elephantissis—as attempted in

from two cases of elephantists as attempted t t ent) assumals but the results re negativ

Q M LOBLING D V

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Genez, M. L.: Autophastics with the Use of Skin Figs with Long Pedicles (Autophastics par lambeau cutants & longs pédicules). Buill et mêm Sec de chr. d. Par. 0, 3 als., 4

In extensive alm defects in which Thierach grafts are unsuitable and skin abding is impossible. In refap may be cut at distance turned back over the deter, and subsequently replaced in its original position after utilization of the terminal portion as

described by Moure

The author reports the use of this method in the case of a soldier with triangular shaped loss f Am over the Achilles tendon 7 cm wide t the base and 7 cm high, which was caused by a shell fragment The callous ulcer had been present for six months and had prevented the meaning of a shoe. At opera ton the edge of the ulcer was trammed t the healthy thin margin. A cutaneous flap with its pedicle over the lower tibes, which was cut by going up on the peterior surface of the leg to the populeal space was turned backward, and accurately sutured to the healthy skin edge of the ulcer over the Achilles tradon. Under the pedicle a compress was placed The upper part of the wound on the call from which the graft was hited was sutured together by under mining and sliding the skin. The lower part was ich open and treated daily a th camphorated ther solution On the twentieth day the end of the graft was divided and the remainder of the flap sutured back into its original bed. Three months later the leg as bealed The transplanted skin as soft and pided over the Achilles tendon. The sca was pain cm and the patient was able to wear low or high thora MALTIN C BURLET M D

Kromayer The Combined Physico-Surgical Treat ment of Keloid (Die kombinert chrurgisch physikaleche Behandlung der keloide) Deutsche mai Richardr 9 3 mlm, 30

The problem of the tremoval flarge lebods will be solved when it is possible to reasone them polly so that bealing will take place by first intense without the formation of ganulations. This poll can be approached by subspectrual consoned of the kelod those. We the cylinder knile which knowsper listroduced for muser dermatological suggests multiple pounders are made through the mairs thickness of the kelods down to the subscription of the sub

distance of from a to 4 cm. The kelood is riddled like a serve. We ha small kind or sections the remaining keloid tissue is then exceed from the proof-boles subspaciernally and a thoot further damage! the preferring. The spectrums which is riddled but still retains its continuity like like a Thiersch flap upon the subscittanceous turner. Healing is complete in it of eight days with scale formation bit without granulations.

A few day after the occurrence of healing kelold tusue beens to form again and must be checked by the application of physical remedies to the young scar tusue while it is still unresistant. Later the blue light of the quarts lamp is polied T obtain a strong nflamm tory reaction buch restrains the formation of keloid fifteen minute exposure is sufficient. The quarts light is preferable to radium and the roentgen rays because its effect begins one day after the exposure. About eight day duappearance of the inflammation due to the light deep radium or roenteen ray urradiation is polied Usnally radium is employed. The dose is regulated t produce a mild rythema. Because of the previous light inflammation, the tissues re sensitized and the dose necessary t produce an erythema is some what smaller than usual As rule one treatment a th light and radium is sufficient t remove definately the tendency toward keload formation. Only in cases of spontaneous or true I load is it percesary t consider the possibility of a recurrence in making the progresss HORRITHAY (Z)

Wohlgemuth, K. Postoperath. Tetanus A.Comtribution t the Gaussitine of Congenital Mesenteric Defects and Extensive Resections of the Small Interestine (Web Tetanov such Operationen Glockreitig on Boting zur Laussill, der angenorenn Hiesestenalberken und der speechnische Demadarmersektsonen Arch f. H. Chr. 9 3 cmm 400

The author reports three cases of fatal postoperato telams. In the first resection [80 cm of the small miestine was done because of strangulation items. The t tamm des loped on the fourth day. Autors) showed defects suturing and peri toutia. Cultures of the bacillus and animal speri ments were positive.

I the second case resection of the Intestine will done because of intrasusception. Tetanus developed on the twelfth day. Peritorutis was not found at utopsy and cultures were negative.

I the third case operation was performed for acute appendicuts in the early stages. Telanos de eloped ten days after the patient discharge from the loopital and was quickly fatal. No bacteriological cultures were made. As postoperative teta us occurs only after abdoctional operations, the infection evidently has its origin in the interime. The sulton therefore recommends prophylicite injections of antitorin after every operation in which the intestine is injured or opened. Opened on which the intestine is injured or opened.

King, W J.: Is Digipsratum: Prophysicale Agent Against: Postoperative Pulmonary Compileations (Opppara de Prophysica organ postoperative Lungmajouspikationen): Desirch Zische J. Chr. 9 J. clarvia, 30

In cases in which Nog admissistered 3 cm of dipporation inframensiality as rootine post-operative incentre he found that the incidence of pulmonary complications after local and general assestbeau remained unchanged. He was unablet oftenmine that the dignuratives are effective as a feetive as a feetive of the complete of the complet

ANTISKPTIC SURGERY TREATMENT OF WOUNDS AND INVECTIONS

Underkill, F. F., Carrington, G. L., Espeinow R. and Fack, G. T., and Others. Rood Concepts in Estimates Supersicial Engantees and Their Significance for Systemic Treatment. ArX. Int. Mol. 923, 2228. 3

In extensive superficial burns rapid concentration of the blood is usually associated with the out pouring of fluid onto the affected area or with increaging orders of the part. When the concentration of the blood remains at y y per cent of the

normal for any length of time hie a endangered The authors' study was made on twenty-one persons who were victims of theater fire concentration of the blood was estimated by deter mining the hemoglobin content by the method of Cohen and Smith For convenience, the patients were divided into two groups, the moderately and the severely burned. It was postent at once that the severely burned responded with a higher concestrained of blood than the other group. The per centage increase in fivalue in indicating the patient's condition and the response to treatment. A chart prepared by the authors shows that there was a marked drop in the blood concentration amonated with an increase in the urmary output in direct rela tion to the amount of find given. In these cases fruids were given by mouth, by rectum, subcutsacously, and travenously as indicated

The determination of the composition of the blood did not reveal any increase in the non-protein introgen soch as might be expected because of the absorption of tenic material from the injured area, but in cases of high contentration of the blood there was a detrease in the sodium chloride content In extensive superficial borns a lowest syncialicol pressure was sensity concentered. The say be symptom of impending shock. When the paise symptom is because the increased concentration of the blood interferes with the curvaturely sectlences though it may not be responsible for the leveral drough it may not be responsible for the leveral drough it may not be responsible for the leveral properties of the paise pressure was nothing, while to other it was normal.

Changes in temperature depend for the nost part upon the efficiency of the creatistic rather than the blood concentration, but there is a marked assented by the blood concentration and the munirise in temperature. In all cases of extrassive operficial burns the forcang of thinks a successive to etical burns the forcang of thinks as successive to evident the normal concentration of the blood is the other than the contraction of the blood is the provenient, for each challed a surface, of the delurent, come, hereoptobanents, gustre internal delurent, come, hereoptobanents, gustre internal delurent come, the complete of the contraction of the delurent come, the complete of the contraction of the delurent come, the complete of the contraction of the delurent come, the complete of the contraction of the delurent come, the complete of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction of the contraction of the delurent contraction of the contraction

William I Present M.D.

Chudovasky M. The Trustment of Termus (Do Behandling der Tetanovasekhon). Orien had 9 j. kreu 1

The author reports on too cases of tetams lack are tracted during person of fourtiern pain. The symptoms of tetames appeared in from one to serve days after the supray in actify four cases, in true seven to fourteen day, in their process and its two fourtiern. It is nearly seen and as two fourtiern it is nearly seen day in eight cases, the processed of the sense for group of paincasts receive four deed and lar by recovered. Of the second group, four deal was treatly as necessered.

During the research by the mortality in cases at During the research because of the completions associated the beaver induced. In bresty loss associated the several plane. In bresty loss at enjury cases the affected extremity was more taken. The intrones reveal several generalized twice closes, recall effections, necrose of bone, strayed coses, and intestinal affections which rendered the prognosis more unfavorable in fifty at the case reviewed the testina had been present for front two to state day. Six of these were fatal cases in the

second and third group.

The treatment compacted of lumber punctions and
the injection of \(\text{t first to and later row state of
antiferants series that the humber set. The varepeated dudy until the difficulty in swillowing for
any left and any left state of the vartiers has a rule purpositely lavesable effect
as beerved within the first tweetly four boars
after the interpolal injections a smaller does six
injected into the solveutaneous issues. The origin make treatment consisted of impectors to demake the state of the solveutaneous issues. The origin boars. Cardinaria consisted of impectors are ought
boars. Cardinaria mixing a very grown in coordinarties that the state of the solveutaneous with the beart findings. Later Linearian balls asbroundes were substituted for the picouppose-solphine solution.

Vol. Longaria (d.)

PHYSICO-CHEMICAL METHODS IN SURGERY

MISCELLANEOUS

Vaye, H J A Question of Size 1 S rg 9 hirton, 140

The article is reproduced in its original form because of in importance and the difficulty of presenting it adequately an abddged form—Entro]

When Brown the English botamat began the observation on physics which culminated in his

written communications of \$27 he focused attention on a subject of enormous importance. The exections he raised a century ago are today per haps the most important of all those before the scenario world. Brown noted, as man undoubtedly had noted from time immemorial, that when pencil of bright hight was thrown into a dark room, there were to be seen in the air certain rapidly moving particles of which there was no other physical evidence. On experimentation he found these dance ing motes under conditions in which freedom from ar daturbance of any kind had been obtained, and he further noted a th the microscope the continual novement among minute particles suspended in louid Because of his investigations the peculiar ribratory motions of these particles were called browsian movements The great physicist, Dalton as at this period working on the atomic theory and the constitution of the molecule and in consection with his investigations the so-called brownan movements were even more happuly designated the dance of the molecules The most important coothbution to proper understanding I these phenomena was that of Thomas Graham Master of the Mint in London, who in \$6 published his pametaking observations which led to the first great description of colloid bodies Graham s work was based largely on dialyses of colloid sized substances through parchment paper Typidall called attention to the curious phenomenon occurring in the track of a lummous beam (called the Tyndall phenome aco) the colorings of which are the effect of sunlight colloids in the air and investigated the trans pureacy and opacity of gases and vapors under raduat heat

To those who have given hitle thought it the term collect, expectably as it is used in moderane, the word specially see the used in moderane, the word specially see the sameter of fact, collect ritins only to give Dividing matter out three great of the moderate which we may be seen of first, those objects which can be seen as the collection with the eye or with the eye asked by the microby with the eye or with the eye asked by the microby with the eye or with the eye asked by the microby with the eye or with the eye asked by the microby with the eye or with the eye asked by the microby of the eye o

be seen. Third, those particles of matter lying be tween the to extremes in size (1/2 micron or 1/10. ooo mch, and / ooo micron or 1/25,000,000 inch) are called colloids. In this third or colloid group the particles re too small to be seen directly but the colloid sized particles are large enough t scatter a ray of light and therefore refract the light ray The tom the molecule and the electron are too small t scatter the light ray and therefore do not refract t although under experimental \ ray con ditions the nucleus of the atom was demonstrated by Thompson and Ashton Definite relationships can be show as evidenced in 19 3 by the remark ble ork of Henry Moseley young Englishman, whose death in the Gallipoli campaign was one of the irreparable losses of the Great War Moseley analyzed the tom by the reflection of roentren rays and showed that there are mucty-two possible elements between hydrogen, the lightest and uranium the heaviest, all but four of which are now

known The ultramicroscope which is used to catch the reflection of the colloid bodies gives no idea of the shape or the composition of the object itself but by serving as a mirror and reflecting the light shows that such a body is actually present. The shortest ray of electro magnetic vibration is the gamma ray from radrum 1/ ,000,000 000 inch The next is the \ ray which is bout / 00,000,000 inch It was with this extremely short \ ray that Moseley did length of the \ ray which in has work The a this connection amounts t the same thing as size is \$50,000 as great as the yellow light ray from the sun, and it is to this property that the \\-ray ones to great penetrating power. The shortest light ray visible t the ey is pproximately /30,000 inch in length The longest es bertman, are the so called ireless, which are from one-half mile t four or five miles in length, and experimentally have reached the length f soo miles or more

A most remarkable fact is that colloids, tome. molecules, and lectrons are not greatly affected by gra ity and remain in rapid motion more or less permanently suspended in thei medium, although all are affected by pressure temperature and t mospheric conditions. The evaporation of a ter is an illustration of this property W ter exists in the tmosphere but under certain conditions does not greatly feel the pull of gra to Under specific atmorpheric conditions, however as when the evapo rated ter rues t a height a bere the air is rambed and by greater coldness than exists at the point of evaporation, it gathers together in colloid form as clouds For rainfall of 16 mehrs to a acre, 144 tons of colloid water practically unresponse t th pull of gravity are suspended over each acre if the

change from dispersed to a fluid state takes place rapidly the electrical energy on the surface of the colloidal particles is given off as an electrical dis-

turbance, thunder and lightning

Gortner and his purel, may influence the feeding of the world by their discoveries of the importance to plants of water in a bound form, and their demonstration that the effect of freezing and dryness on plant his depends on whether the water contained by the phat existed in a free form or a bound form. The difficulties which stood in the way of finding food plants which would withstand winter killing were enormous. Years of patient walting were often necessary before weather conditions made the demonstrations possible. When Gortner concrived the idea that water might exact in bound state uninfluenced by ordinary conditions, tracephene or thermic, he found that if plants hich were not winter-killed were pressed in hydraulic press, little or no rules was obtained and that the amount of juice that could be expressed was directly related to the ability of the plant to withstand frost He found that those plants which were not winter killed contained little unbound water that is, water in a free form, while those that were destroyed by freezing contained relatively large amount of free water Carrying his experiments out in the desert. he found conditions comparable as to drought plants that could withstand dryness contained water as did other plants, but in a bound form Expen ments in the compression of water which is one of the most incompressible of all substances, have shown that the water in film on collect surfaces can be compressed to 75 per cent of its volume and that under such conditions it behaves as a solid and does not evaporate at 300 degrees C in complete

ANCHOR W know that substance in solution, common salt for instance, exists although it can no longer be seen when the water is evaporated the salt is again in evidence. If a pencil of light is thrown through such solution it will not be diffused, showing that the light rays have not met bodies in the solution which are larger than the ray of light, and consequently the light is not reflected. It was Arrhenem, the Sweet ish scientist, who defined the electrolytic theory of solution, esserting that salts separate in water into positive and egative parts, and that such solutions are ionic. An ion is an unsatisfied electric charge. A chemical reaction is always accompanied by an exchange of electric charges between elements the ion carries a definite charge and moves with the electric current Colloids, atoms, and molecules may give off electrical energy under certain conditions

One may well ask, where does the energy contamed in the atom, molecule, and colloid reade Nobel prize in physics for 1922 was given Dr Nicle Bohr of Copenhagen who shout ten years ago, revealed his conception of the atomic system as solar system in which the sun is represented by nucleus of positive electricity and the planets by ranidly revolving negative electrons, and on this

theory calculated the way lengths of light m each line of the spectrum. The positive core of the atom is excredingly dense and heavy compared with the electron, in which the activity of negath electrons resides. The positive core might be said to be the electric center of gravity toward which the necestive electrons constantly are pulled. Knowledge of electrical energy is based largely on an under standing of the accutive electron which is such

/ .800 the density or weight of the position in drogon nucleus which is the smallest and lightest of known atoms of matter. It is because of its extremely small size and weight that the negative electron can move with such extraordinary rapidity through solid substances, especially copper and other elec-

trical conductors

The force that exists in the tors and molecule is inconceivable Rutherford, the great physical, says that he looks forward to the day in which energy for all our uses will be atomic. One of the scientists associated with the General Electric Company says that there is sufficient energy in tesspoonful of water to drive the largest battleship across the ocean. The electric power in the molecule depends on the mass of the aucleus, that as, the number of positiv charges in the mass and the number of negative electrons circulating around the positive nucleus, the charges in the more stable compounds going up in anthrestical progression of four, the octet being the most stable

Most of the brochemical reactions in the both depend on physical states. Krogh, whose expenmental studies of the blood capallaires won for him the Nobel prize in physiology in 920, has added greatly to ur knowledge of the mechanism of body nutration. It had been believed that the capillaries were enclothenal channels in the tissues, but Krogh has confirmed the observation that even the finest expellance contain smooth muscle fibers through the walls of which oxygen and crystalloids, such as glorose, salts, and the ammo acids, supply the body

cells by diffusion Diffusion depends on pressure Crystalloids are in molecular state and penetrate the capillary walls everywhere because the pressure is greater within the arterial capillary than in the themse space and greater in the thesis spaces than in the enous capillary which receives the waste products of oxidation. Unless there is great chlatation of the capillaries which increases their permeability to larger bothes the colloids normally do not penetrate the capellary walls except in the liver and gastro-interimal tract. Histamin chieses the capillary walls so that its interspaces permit the escape of larger-smed particles such as colloids, and as in shock, the experimental animal bleeds to death in its own teames. The colloids of the blood are of different sizes bence there is variation in the perme ability of the capillary wall to different collows The osmotic pressure, the state of dilatation of expillanes, and the size of the collect molecule are the controlling factors. Increased work of any or run of the body cames dilatation of the capillines. This power of dilatation and contraction he in the non-structed muscle coat of the capillary Variations in caliber of the capillanes may be brught about by the many influences which affect his processes and are to a great extent independent of nerve control For instance the effect of cold on the skin is to produce contraction of the arterial conditions, resulting in blanching, which is followed by blueness due to dilatation and stams of the renous capillaries distended with non oxygenated blood One can concerve that many substances said to be possessors are poisonous because of their physical condition certain these filters may become phaged by particles which of themselves are not possessors in the chemical sense, but are attracted to testam localities and plug the normal inter mates, sespending internal respiration

The point should be emphasized that, normally the blood capillaines pack up only motocular substances or extremely fine subdivisions soluble in water Generally speaking, it is the function f the lymphatics as absorbents to pick up material substances baschible in water, such as bacteria, protozoa and the cancer cell, which are too large to enter the blood capillaries. This absorption is through the spency of phagocytes which by dispedens reach the lymphatics. The reaction in the lymph nodes repments the struggle of the gland to detoracate these pathologic agents. The lymphatic channels lead from one gland to another but in each gland they break up mto lymphotic capellaries varying from metron to mm and into endothelium-lined pockets and muscade before they are gathered again into the larger lymphatic channels for onward move-ment. These physical facts are of the greatest importance in relation to the infections which spread y way of the lymphatic system, such as tuberen ions, syphiles, and cancer

Bacteria are electromegative, b t the bacterial spore earners positive charge. Evidence goes t move that endothelial cells which are phagocytes as electropositive. This research is incomplete lowever as an entire series of cells has not been worked out.

An idea of the muniteness of the constituents of a cit sizued from the following estimated analysis A cell a composed of () protein, which is always orded, () authority distant, which may be either crystiked or colload, (j) imposts or fairs, which are existence ordested complotes (a) salls, which are expitibled, and (g) water some part of which, large or small, do-poining on the physiological state of the cell, may as in colloids form. As a specific instance the composition of a liver cell, expressed in molecules, a committed to be protein, 33,000,000 noto lats and specific instance the composition of a liver cell, expressed in molecules.

 and Geraghty in 10 o, in working on the elimina tion of anilms dyes from the kidney were led t the discovery of phenolsulphonephthalem as an index to renal function. Evans has shown that die elimina tion is purely question of physics, that is, of the size of the dy particle which is permitted t pass the kidney filter Bowman, for whom Bowman's capsule was named in 1842 made the first of that long line i studies on the maloushian bodies in relation to the system f tubules of the kidney work continued later by Lud ig. Cushny, Marshall, Richards, Drinker and others, which suggested that the essential action of the kidney is that of a filter Sollman seventeen years ago in his perfusion ex periments, found that the kidney of an animal removed from the body could be made to filter urine Cushny by his pharmacological investigations of the elimination of drugs from the kidney developed most important data as to kidney filtration. While it is true that ures is excreted in small amounts in the saliva, through the skin the mucous membranes of the intestine etc. the natural area filter is the kidney. In this connection it is most interesting to note th't urea is one of the smallest I the molecules. being but slightly above atomic size, and that it is non hydrophilic, that is t does not absorb water For this reason it is one of the most diffinible molecules and passes with great rapidity in and out of the tremes of the body. While urea is non-hydrophilic, its elimination through the kidney is closely amocrated with the water balance. Reduced urea output is accompanied by corresponding increase in the watery constituents of the unine f a fair degree of renal function is municiped

Sir William Crookes, who died in 1919 was the last of the great all-around physicists. Physics has gros so tremendously that each physicat of today can claim t have accurate knowledge of only small part of the subject Crookes, in his attempts to demonstrate the fourth state of matter exhausted the air from beavy glass bulb When certain electric attachments were made, the bulb became filled with luminous matter and, as Crookes ex pressed t, actually touched the borderland where matter and force seem to merge into one another He named this luminous substance the "cathode ray" which was later shown to be composed of negative electrons, buch is the fundamental conception of the \-ray He pointed out also that when X ray come in contact with solid matter they give rise to shadows, and that the cathode rays, when outside magnetic field, als 3s tra el m a straight line magnetic beast and ye its or in a manufacture was working with the Crookes tubes when he discovered the \ rays The use of energy in the form of rays such as radium, \(\lambda - ray\) atc is an example of beophysics in relation to medicine. Baylass, speaking of chemistry and physics, mys The boundaries between these two branches of

science are rapidly becoming obliterated
When we survey the modern field of research
which goes under the general title of biophysics, the
commercial inventions and developments that con-

cern physics in the sciences and arts, we get some tide of the import so of this work. Jack has been neglected in its relation to medicine. Problems worked out is connection with industry surrendwer and animal hisbandry that procedure the articles and actionally, it the budgen equations which have recent by been so broad! complianced by world known orator who believes that man was created independently and not through evolution of pre-existing species, rew more failt ring to our: It than I our latefulnesses. One cannot best symp thace how an not reprosable for man.

Perhaps enough has been saled to further the plea that booth size be given more imports a place in the medical a bool curriculum, and that some of the time of the overburdened students of medicine now occupied by chemistry be given t medical biophysics.

pa) see
Cartaño, C. A., and Gómez, J. F. M.: The Results of Distherary (Distensia: Los results dos obtendos en el lections de district). Semant seed. 21. 22.

Asi

The authors has tried di thermy in numerous conditions, including genorrhead arthritis, ricu m to arthritis, fout lajunes neuritis bdominal

adhesions shronk pericolitis, periodent continu tion mucomembraneus colita, erchilis prostativa salpingalis, combontas, ad pelvicentomias A reics of their cases, which pumber more than on shows that the method cometimes ones excellent result and cometants tauses no mores ersent. The trialt ere better in abdeminal ad graecological discrees than in articular conditions. The maintity of the cases of pale due to controllablads or post portati adhesions showed marked amores event nd som of them were cared. In cases of falls formed percel membranes however there was kitle or no improvement. Chronic constitution wa often refleved considerably by duthermy bea other tre tment had failed. Fraumatic and lafer tion arthress ere also benefited but arthress

deformants was not Very substactory result—ere obtained in discuss of the male general organs. In certain cases of generatoral mechanics distinctory—as the only treat

ment that put an end to the infection. The method is contra indicated in acute abdom-

inal, pch a — nd articular conditions, and is menor haria and utero or arian congression

1 rule the application is continued for thirty minutes, but in genecological infections and gover threal wrethritis it is more prolonged.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Mayo, W J: The Septic Factor in the Three Great Piritors. Canadien M Arr J 9 3, nm, 549 A grateful worki has recently celebrated the

on hundredth anniversary of the birth of Pasteur whose contributions to the welfare of the human race were probably greater than those of any other man The conviction that bacteria are more resusta t than animal organisms t specific possons which meht select the bacteria without harm t the nimal cell a undoubtedly true, although recent expenments in chemotherapy have shown that there are tertain poisons which will select the parasite rather than the host. For the animal parasites, great and small, specific possons have been found quantite for the plasmodium of malaria, emetin for the amorbo of dysentery thymol for hooks orm and male fern for tapes orm. When the malignant process is once set in motion, the abnormal, immature protective cell starif becomes the specific destructive agent The caremoma cell, regardless of causation becomes as spends an gent of infection t the affected indi-idual as any form of microbic organism and

produces in each new locality of carcinoma infection

the morphology of its origin

The three great plagues of mankind are t bercu loss, syphibs, and caremoma manifestations f the bacterium, sperochete, and the parasitic cancer cell Of the many features these three infections ha e in common the most important as their relation t the haphatics. We are just beginning t realize the close relation of biophysics to the physiological processes of the body. It has been show by Her rag and Machanghton that the lymphatics are closed system of absorbents, their function being t pick up material insoluble in water and too large t enter the capallaries R cterns are too large t pass through the capallary interspaces and are therefore pecked up by the endothelial cells hich become placecytic and by dispedent enter the hamph tics here an attempt is made t destroy or sterilize is organisms. The resistance dev loped by the the organisms haphatics aries in different persons not ath diferent forms of infection. The I tent phase of there contained organisms the lacilli of the reulesis speechetes, and the carcinoma cell ma Le proloaged, resulting in renewed circ ty ft man tan, due t breaking dos of th hymphatic barriers from usjury or intercurrent disease

The reactions of the great fection one on other hen in combination higher in not in frequently are distances expect II if 45245 co costs. According t Corner the under it more ability to he promises they to he promise and

secondary syphilitic lenous with consequent early disposus and the ad aniages of early treatment. In curcinoma of the internal organistic disease may progress with little or no pain because of the absence of sepais, in marked contrast with the open septic conductors of external carrooms.

TUBERCULOSIS

The septic factor in tuberculosis is the most important factor Tuberculosis itself seldom inlis unless the products of the t berculous infection are confined in bony box and produce influrious pressure as in the brain. Other parts of the body the thorax, personneal cavity and the soft parts generally yield to pressure this gives time for development of local reastance and generalized immunity.

SYPHILIS

The death rat in cases of syphilis following t years of treatment is nearly to see the normal. It is possible, or even probable that there is a certain specificity in strains of spirochetes which causes attack on the pervous system in one case and in nother affects the external portions of the body. On the other hand, in the location and progres of syphiles the individual soul may ry and the sourochattes be the same. Negroes seldom develor syphiles of the pervous sy tem but suffer to a far greater extent than the white race from its vascular manifestations in the heart, sortic ancurain etc. It is probable that there are in the body certain other tuspes in which the spirochates may remain latent indefinitely a thout manifestations I reed lymph nodes may restrain the advance of the sparochates and encapsul t them so as indefately t prevent evidence of their presence. In certain cases of intractable syphilis with aplenomegaty which anguing is prominent symptom. protonged treatment sometimes fails t arrest the

duese. Its progress is quickly arrested and the darrests promptly overcome by removal of the great he charged spleen in which purchastes is the found to the areas compounds are of great value not only as curative agent but also as public health agents,

as curative agent. Dut also as pubble health agents, a thin six hours rendering current of the disease in contagous form such as chancres and mucous prit hes, temporarily isomaphile of infecting others. It is not to use anythenamin as soon as possible know, while hot there has been a write-

Anon phale but there has been a wide and unfortunat tendency to see it in doubtful cases of earl—rphales. The position of the patients with doubtful early spiblis who has had supplemental treatment is most unfortunat for he most carry the one of suspected spiblis without howing better he ever really had it. Arain protomped teretiment of patients with doubt il spiblis or

rather patient with doubtf. I Wasserman reactions, who has associated street surject condition such a c remova, leads t del y and loss of precious time if cure is to be obtained.

CARCINONA

Gladular in all ment it carmoons talls the torn While operate skill be technique are inportant general speaking the results above that, substant regard if the type of operation a & evercure occompite prevent of cause in hich operation in performed for carmoon before the gladular amount of and in only 10 per ent in which it is pertorned after they are in a of Local operations care feed due so gramm operators full when the levelat it is hange as of the control operation in the control op

While low of it mortality in calculous is in portant extrason of operability in also very import and become it gives target number of patients.

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The overated app. In casser I, the curse of a much of the distress and humes the patient 1 a fatal end. W. all prospers the dangers of open time to be infected on so called inflammatory carmons ta, such as a those around the mostle in the error of the property of the error of the patient of the error of the patient of the error
tion and aloughing who havecompaned the one of the cautery. There is many me he this mail amount of radium if little good and a croor moore amount of harm. With good I the brogeration should be problemed and no cross the population of the population and the partial of the population and the partial of the ways. If radium is selected one can seldout on the charm back and I ke the operation is one of the partial of the ways. If radium is selected one can seldout partial parts of success of the parts of success
Reference, W. M. F. Further Research on the Relation of Carcinoma to Infection. Laucet. 9.3.

cer 330

The athor obtained an anaerolac bacilius of the diphtheroid group from fifteen uses of carcinoma

corroborating the work of his father Same, M.D.

Cattell, M. Studies in Experiment I Traumatic Shock, VIII. The I fluence of Morphine on the Blood Pressure and Alkali Reserve! Traumatic Block. Arch Sorg. 0, 1 to 0

The intentine on the flect of morphine upon the circulation dates back in yyears. It though, he reviewed it up to 577 stated that morphine does not affect the agus or mometor centers and its essent followed by decrease in the blood pressure due to dilutation. I the blood ceals especially in the skin.

Macht found that morphise tends to increase the persetable and touchty of organs.

All recent workers on the s bject agree that in does and other manuscals morphice slows the bean through a central ladurence on the ages. In man three is only—shipht decrease I the pulse and that is associated—in decreased actions

The author extruct out series of enpelieses, prescapilly spon casts as which the filed pressure was relificially depressed to 60 nm. Hg. A number of the naturals were given himp doors of possible and others are used for control. In the femore there was if first a slight depression of the bottom than the first a slight depression of the pressure but practically complete recovery wishand. I home I as the control angunite the first follows.

present was slower and less marked.

Experiments were made also to determine the
effect of prosphine on the reduction of the allich
resers which occurs i about and law blood pers
are. A annul was placed in the percandam to
control the arterial pressure, which was reduced to
to not. He. A vereity intoprospeter was consected.

th one carotal arter, and in the other cannot a inverted to brain blood for the tests. Morphise was given in divers of from to to so name per kilo-

gram of bod enght

Lifet the millioner of the roopships there was most marked ben the allah reserv. The was most marked ben the morphise was used before the blood pressure w lowered. In secret cases the allah reserve a tabler at the end of three boars than it was at the beginning of the experience that it was a transition of the experience of the experi

The urbor excludes that in the firster of his own in estigations and in the literature on the short there is no exident that morphise has any deleterious auton on the circultion or that its use a contra suddicted in shock

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SURGICAL PATHOLOGY AND DIAGNOSIS

MacCarty W. C. The Cytologic Disgnosis of Newplasme J. Inc. M. Azr. 9, p. hxxx, 514

The methods of todying cells which he beer employed hervistorie has been budgetyped by (i) changes in the morphology due to nectable daureances in the immediate premoters phase of the deense (i) postmortem changes occurring between the inne of death and the funtion of the times (ii), againsts of the cell conditional by more in the process of embedding (i) the introduction of fereign regiments in the congulated cell constituents, (ii), the shrinking considers to deby daranos, charles and mounting; and (7) the variety of pictures re whose from the cutting of many different planes through congulated opaque cells

Fresh living cells of malignant neoplasms are retaining can of marginam proposants are seriest spheroidal or ovoidal nucleoli. The author believes they contain multiple polar mitotic figures very rarely but never the so-called atypical irregular or asymmetrical mitotic figures described by you Hassemann and others as characteristic of cells of makesant neoplesms. Any asymmetrical mitotic heure be has seen may be fast as well attributed to the distaterration of the cells or to cutting planes through perfectly regular figures. The cytoplasm and aucleoplasm are not reticular as described and move in textbooks. They have the structure of a fine emulsion as described by B yluss

Mahgmant cells do not resemble morphologically any adult timms cell in the body destate the fact that they may have a similar general arrangement They differ from ordinary regenerative cells in hav by a conver or denser cellular wall, a denser cytonism, a denser nucleoplasm, a larger nucleolus There is a greater variation in the extremes f size of the cells, nuclei, and nucleoff than in the normal

regreerative cells of repelir la many instances these cells cannot be differ estated from regener to cells by 16-mm 8 mm or 4 mm lemes the stages of differentiation can not be accurately recognized, and the relative size of the cellular component parts cannot be definitely eteramed There is no standard of comparison

th normal cells because histologists ha gren high power morphological standards for living

man cells It is shown by case records that, given a few cells tader the oil lens, a diagnosis can be made in border has cases. This is made possible by the method of tung and staining A lat of theme is placed as soon a removed on the stage of a freezing microtome, fraces, and cut from 5 to 15 macrons thick. The section is first placed in ph) mological socioum chloride relation and unrolled, then dipped by means of a the lifter into a strong solution of Unna s poly chrome methylene blue from one to ten seconds. then transferred to, and washed in, physiological soften chloride solution, then transferred to Brun s f'acce, and then almost immediately drawn up on a slide and studied. If such preparation is peop my made, the nucleoha is the nly part of the retrerative and peoplestic cells which stains. The differentiation between regenerative cells, partially a completely differentiated cells, and the ndiffer

entiated cells of malienant peoplesms may be made. provided the examiner is familiar with the blob power morphology of normal adult cells of the differentiated tasses of the human body and with the normal phases of differentiation in the normal re-W McK. Cratt. M D peneration of treaties

MEDICAL TURISPRUDENCE

Responsibility of the Surgeon in the After-Care of Fractured Bones, Haber en Hanley to Pac Ret p 760

This case was reviewed by the Simcome Court of the Stat of Washington entirely on instructions given by the lower court to the fury. Huber sued the shwarcians claiming they perferently reduced a iracture of his right arm and negligently treated the fracture after the reduction. A rudement rendered in favor of the physicians was pocaled by Huber wh claimed error in the instructions given to the Jul 1

The Surreme Court protoved the following instruc-You are instructed that here a physician undertakes the treatment of patient not only must be used reasonable but ordinary kill and care in sand treatment at the time he takes charge of said case, but also must be used ordinary skill and care in the subsequent treatment of the case, and it is his duty to give the patient such attention after the first examination or reduction of the fracture ordinary physicians and surgeous possessing ordinary skill and intelligence practicing in the same general locality would deem necessary in similar case and if you find from the evidence that the defends to ttempt to reduce the fractured radius for said plantall but did of thereafter use reasonable care and skill in the subsequent treatment of said frac tured bone or such care as is imposed upon physicians holding themselves out as physicians and surgeons possessing the ordinary knowledge and skill of the physicians and surgeons located and practicing their profession in the same general locality, and if you further find from the evidence that because f such failure to use reasonable care and skill in the original treatment or subsequent treatment of the mured arm the plaintell was permane tly injured or suffered pain injury and damage then you will find for the plaintiff in such sum as you deem lust and proper

Several ther instructions the Supreme Court held erromeous Accordingly new trial was granted

WILLI MI MOONTY

rather p tiest with doubtful Wasserman re ctions who ha e an associ ted nine t surject condition such as carenous leads t delay and loss of precious time if a cure let be obtained.

CURT ON

Gladely serve enert in carcuom t lit the toy. While openius kill and technique are important generals speaking the mobils above that, without regard it be type of operation for ever occurs in a pre-creat of cases in which operation performed for carcinoma before the glades in in all ed and in oil to per-tim which it perturned after they are in olded. Local operation care level due so m no operations fill when the local state has a seed.

While low operating more I ty in accurous a line portant ext soon of operabilities has ery larger and became it gives a larger a rober if p tant.

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The a ser ted servis in cancer is the cause I much of the ditres and hurnes the patient till fatal and 11 all recognize the diagrees of operating on the infect it, so called flamen tors carrinomata, such as those mored the month and the cere-The use of the kind in these cases u of a followed by rapid recurrence an i metastasis from infected enous through touters whom in these cases I flowed later by plustic repair, is step in the right direction.
In many cases of selected carrinor—radium and the rorntgen my are now used d ther ha similar e act without the ri ke of the tax se destrue. tion and slowed it which recorns and the use of the cauters. There are many men bo ith a mall mount of radium do little good and a coor more amount of h rm. With good faith but poor judgment they apply t them in cases in bach operation abould be performed earl. Generally speaking the use fradi in my as the part wol the way If radium is rejected one can reldom t m lack and take the operatio rout it is a good prospect of success

Rabertson, W. M. F. Further Research on the Relation of Carcinoma t. I. fection. Lancet. 9 p. co. 230

The uthor obtained an anserobe bacillus of the diphtheroid group from filteen cases. I carcinoma corroborating the work of his father.

SANCEL KAIN, V D

Cattell, M. Studies in F perimental Traumatic Shack, VIII. The I Buence of Morphine on the Block. Arth Sart. 9.3. is of

The lit rature on the effect of morphise spoot the circulation dates bock many years. Withowsh by reversed if p t \$77 st red that morphise does not affect the vagus or visionator or term of uses a followed by decrease the blood pressure does to did tation of the blood casets, especially as the skin.

Macht found that morphine tends to increase the peri takes and tonicity of access

All recent orders on the subject agree that is does and other manerals morphus gloss the least through or tral influence on the vagus. In man there is only alight decrease in the poles and the

is a vocasted with decreased activity.

The author carried out series of experiments.

principally spon cut is abled to laborate principally spon cut in abled to me. However, we full cut by depressed to to me. However, of the animals were n. on large closes to the animals were n. on large closes to the animals were n. on large closes to the forms and others were used for countries. In this ferror there as 1 forms a wight depression of the blood pressure but practically, complete recover, within two hours. In the control animals the rise is blood coverage was abover and less marked.

Experiments were mode also t determose the district of morphise on the reduction of the situal reserve which occurs in shock and low blool prises. A criminal we plat of mit the percardium to control the arterial pressure, which reduced is for min. Hig. Vimericay minoester was convected from the control of the pressure, which is not the control of the pressure of t

grant of both cribt.

Lod the nife ere of the morphise there was recovery of the all the reserve. This was modified before the morphise was seed below the blood pressure is being pressure. It is event it asset the was the benaning of the expenser of them it was the benaning of the expenser. It is the same the proposer of the expenser of the morphise of the expenser of the decrease is respectively in grad into sore to the decrease is respectively in grad into sore to the decrease is respectively in grad into sore to the decrease is respectively in grad into sore to the decrease is respectively in grad into sore to the decrease is respectively in the amount of the decrease of the decrease is respectively in the control of the decrease of the decrease is respectively in the control of the decrease of the decrease is respectively.

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SURGICAL PATHOLOGY AND PLAGNOSIS

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SURGERY OF THE

Brain and It Coverings: Cranial Nerves

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NERVOUS SYSTEM

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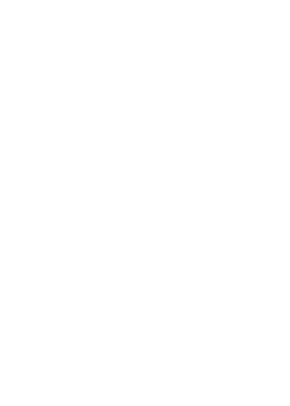
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